

# BLACKHAWK

Socket  
Wrenches

Water  
Circulating  
Pumps

Rest-A-Foot  
Throttles

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CATALOG *for* 1926

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Tool  
Grinders

<sup>No</sup> 326



# The BLACKHAWK Line

Socket Wrenches  
Water Circulating Pumps  
Rest-A-Foot Throttles  
Tool Grinders

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1926 Catalog

No. 326

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## Blackhawk Manufacturing Company

General Offices and Factory

148 Broadway, Milwaukee, Wisconsin

When  
you see a  
"Hex"  
think of  
Blackhawk

## Blackhawk Advertising Cuts Selling Costs

Blackhawk has launched one of the largest advertising campaigns in this industry.

Its job is to make Blackhawk products still more saleable for Jobbers and Dealers.

The Saturday Evening Post is used, throughout the season, to reach the general motorist-market.

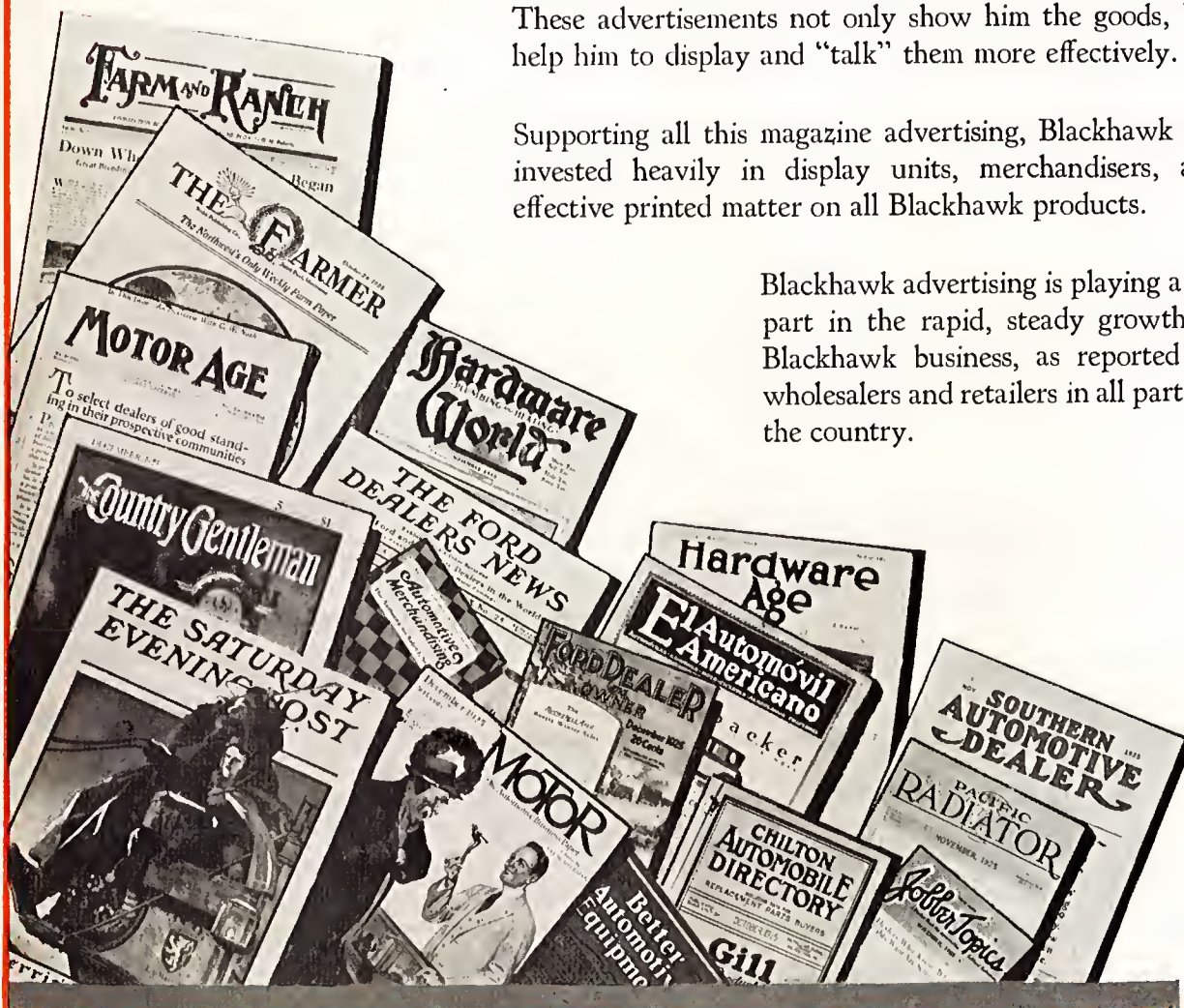
The Country Gentleman, The Farmer, and Farm & Ranch, carry the Blackhawk story to the farmer motorists of America.

This advertising to the consumer covers Blackhawk Wrenches, Pumps and Foot Throtles. It helps the Dealer to move more goods, at less cost in time and effort.

The Dealer himself is reached, regularly throughout the year, by full-page advertisements in the leading trade journals shown in the illustration. These advertisements not only show him the goods, but help him to display and "talk" them more effectively.

Supporting all this magazine advertising, Blackhawk has invested heavily in display units, merchandisers, and effective printed matter on all Blackhawk products.

Blackhawk advertising is playing a big part in the rapid, steady growth of Blackhawk business, as reported by wholesalers and retailers in all parts of the country.



## BLACKHAWK MANUFACTURING COMPANY

### Blackhawk Socket Wrenches

When  
you see a  
"Hex"  
think of  
Blackhawk

#### Salient Features—

Our 1926 catalog presents a line of socket wrenches that is replete with service and merchandising possibilities.

Quality and service are built into every wrench. Special analysis steel is used to give necessary strength and balance to each tool.

In addition to the usual standard types of socket wrenches, BLACKHAWK engineers have designed many time-saving tools, which find ready sale to every mechanic.

All sockets are heat treated for hardness and strength. Sockets are welded to handles—making a rigid one-piece tool. All press fit joints of handle and socket are *drilled* and *pinned*—an exclusive BLACKHAWK feature.

Thin walled sockets make all bolts and nuts easily accessible.

#### Guaranteed Tools—

Every BLACKHAWK wrench carries our guarantee against defects in workmanship and material.

#### Illustrated Size Guide—

Types and sizes of wrenches are quickly located on the chart illustrated on pages 20-21.

#### Standard Packages—

All wrenches—in packages of five.

Q D sockets—in packages of ten.

Stock orders should be in accordance with above.

#### List Prices—

List prices are subject to change without notice.

When  
you see a  
"Hex"  
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Blackhawk

## Index to Products

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## BLACKHAWK MANUFACTURING COMPANY

Blackhawk Wrenches  
Numerical Price List and IndexWhen  
you see a  
"Hex"  
think of  
Blackhawk

No.	Code	Weight		Price	Page	No.	Code	Weight		Price	Page
		Lbs.	Oz.					Lbs.	Oz.		
A	Racine	4	13	\$2.50	13	34	Anker	..	7	.65	12
B	Radford	5	2	2.50	13	36	Antler	..	8	.65	12
C	Raton	7	4	3.00	13	36X	Apure	..	7	.70	12
D	Rail	15	4	6.00	13	38X	Arabia	..	9	.70	12
E	Rack	16	12	6.50	13, 19	40	Apia	..	9	.65	12
T1	Abode	..	2	.50	11	40X	Arad	..	12	.70	12
T2	Azuza	..	8	1.65	11	40XX	Arena	1	6	1.00	12, 19
T3	Alki	..	8	2.25	11	44X	Arbil	1	..	.80	12
T4	Avon	..	15	.60	10	46X	Arbor	1	..	.80	12
T4X	Adam	3	5	1.50	16	46XX	Argos	1	8	1.25	12, 19
T4XX	Adobe	5	1	1.65	19	48X	Arc	1	3	.80	12
T5	Athol	1	..	.60	11	50X	Arcot	1	4	1.00	12
T6	Austin	..	10	.65	11	52X	Arden	1	5	1.20	12
T8	Alamo	..	12	.70	11	52XX	Arica	1	13	1.60	12, 19
T8X	Alcove	1	10	1.00	16	58XX	Arno	1	15	2.20	12, 19
T8XX	Afton	2	15	3.30	19	64XX	Aruba	2	11	2.60	12, 19
T9	Ace	..	7	.50	11	70XX	Asia	3	6	3.00	12, 19
T9X	Ally	..	6	.50	11	76XX	Asti	4	6	3.50	12, 19
T9XX	Anode	..	12	.75	11	4B	Ash	..	3	.65	11
T10	Alba	..	15	.75	11	6B	Arma	..	5	.75	11
T11	Alma	..	4	.50	11	8B	Anita	..	7	.80	11
T13	Alpine	..	1	.35	10	1	Abba	143	..	149.10	7, 8, 9
T13XX	Alone	..	6	1.00	19	1A	Brine	76	..	85.75	7, 8, 9
T013XX	Ardent	..	5	1.00	19	12	Brave	46	8	35.70	19
T15	Arpin	1	3	1.00	10	12E	Born	54	5	42.20	19
T16	Anna	..	4	1.50	11	18A	Boaz	15	2	13.10	14
T17X	Apex	3	..	1.10	16	22C	Beroun	22	2	16.40	14
T17XX	Antigo	4	14	4.00	19	23	Beaver	9	3	11.90	16
T18	Anchor	..	4	1.50	11	30	Ben	5	7	4.45	27
T20	Armor	..	4	1.50	11	32C	Basco	25	..	20.60	15
T22	Army	..	6	1.75	11	35	Boat	16	10	10.30	16
T24	Atlas	..	6	1.75	11	35B	Boulder	21	2	11.80	16
T26	Atom	..	7	1.75	11	43D	Bruce	49	..	32.95	15
T28	Atta	..	7	1.75	11	45	Broom	6	..	4.20	27
T40XX	Anon	1	4	1.60	19	50	Bestow	7	4	4.80	27
T60	Aniwa	..	11	.75	11	110	Cades	..	11	.70	10
T80	Attica	..	13	.80	11	110X	Cisco	1	2	.75	10
T90	Anew	..	13	.75	11	128	Cable	..	9	.65	13
T100	Avalon	1	1	.85	11	130	Cedar	..	10	.65	13
012	Absent	..	3	.30	12	136	Carl	..	12	.75	13
014	Abbot	..	3	.30	12	144	Club	..	15	.95	25
016	Abo	..	3	.35	12	150	Chub	1	12	1.25	17
018	Acadia	..	3	.35	12	200	Case	90	..	39.95	18
019	Accra	..	3	.40	12	210	Cecil	1	1	.75	10
020	Achin	..	4	.40	12	218	Cider	1	8	.75	11
022	Aden	..	5	.40	12	230	Cigar	2	9	.90	11
024	Adio	..	5	.50	12	310	Camp	1	5	.80	10
025	Adrar	..	6	.50	12	400	Dewey	75	..	42.95	28
028	Agra	..	9	.60	12	411	Demise	5	7	4.50	17
032	Ago	..	9	.60	12	414	Detail	..	2	.50	13
034	Ain	..	10	.70	12	416	Detour	..	3	.75	13
040	Aix	..	14	.80	12	423C	Dipper	22	6	16.35	17
14	Ajmer	..	2	.30	12	432	Ditty	..	5	.40	13
16	Akron	..	2	.30	12	438	Doric	1	14	.75	13
18	Albany	..	2	.30	12	451	Door	..	12	.75	13
19	Albert	..	2	.30	12	475	Eagle	..	6	.70	24, 26
20	Albion	..	3	.30	12	490	Envy	79	..	44.55	32
22	Ale	..	3	.30	12	500	Elba	1	7	1.20	10
24	Alas	..	3	.40	12	516	Eldon	1	8	2.00	24
25	Alost	..	4	.40	12	518	Elk	1	8	2.00	24
26	Alps	..	4	.40	12	520	Elsey	1	10	2.00	24, 30
28	Alton	..	5	.40	12	522	Edge	1	10	2.25	24
30	Amoy	..	6	.50	12	524	Ellen	1	10	2.25	24
31	Amur	..	6	.50	12	526	Eline	1	10	2.25	24
32	Andes	..	6	.50	12	528	Elto	1	11	2.25	24

Q. D. Square Sockets

Q. D. Hexagon Sockets

When  
you see a  
"Hex"  
think of  
Blackhawk

## Blackhawk Wrenches Numerical Price List and Index

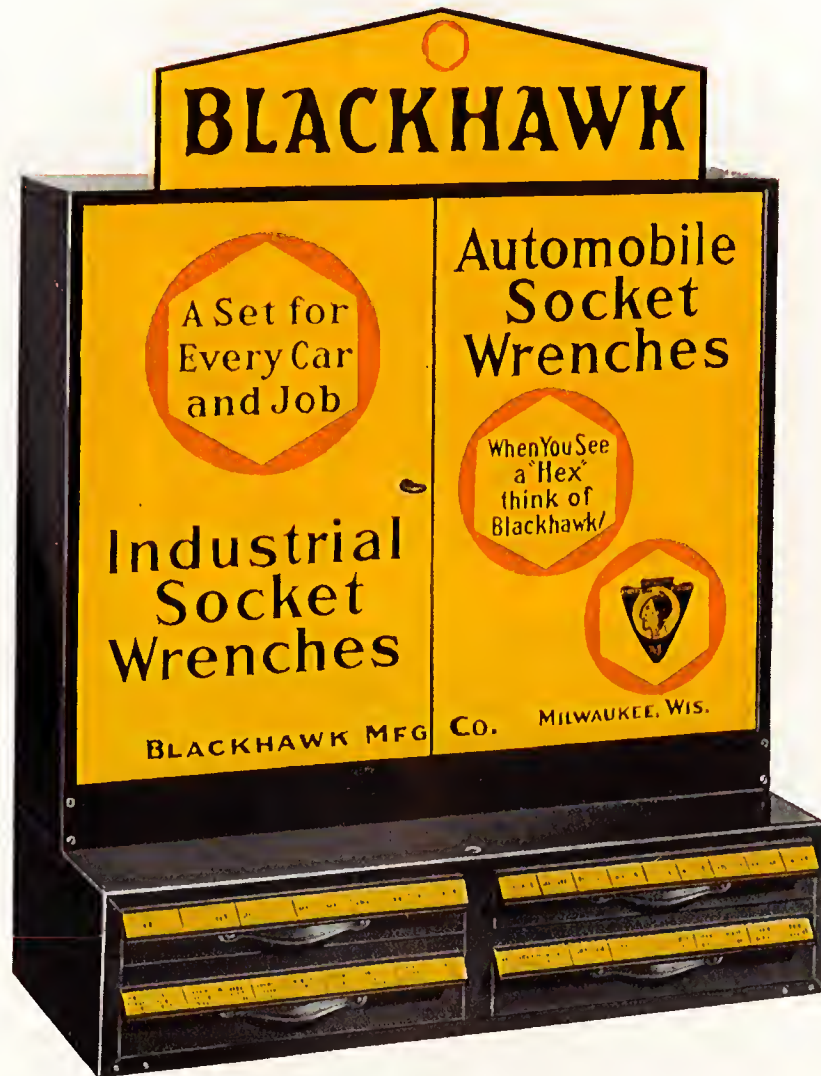
No.	Code	Weight Lbs. Oz.	Price	Page	No.	Code	Weight Lbs. Oz.	Price	Page
575	Elan	1 10	.80	24	3116	Joplain	1 ..	.70	24
610	Fort	1 15	1.05	10	3118	Jade	1 5	.70	24, 30
616	Fink	1 10	2.50	24	3119	Kelso	1 5	.70	24
618	Fan	1 10	2.50	24	3120	Kent	1 6	.70	24, 30
620	Ford	1 13	2.50	24, 30	3122	King	1 6	.70	24
622	Foot	1 13	2.75	24	3124	Kipp	1 6	.70	24
624	Fork	1 13	2.75	24	3125	Kirk	1 6	.70	24
626	File	1 14	2.75	24	3126	Kyle	1 6	.70	24
628	Filler	1 14	2.75	24	3128	Knapp	1 6	.70	24
650	Foster	5 5	4.40	27	3310	Lake	1 8	1.00	10
710	Fowl	.. 3	.40	16	3329	Lark	.. 9	.50	26
712	Gaff	.. 4	.40	16	3432	Levy	1 14	1.45	25, 29
714	Galena	.. 4	.40	16	3640	Mason	2 8	1.60	25
716	Galley	.. 4	.40	16	3731	Lear	.. 9	.50	26
718	Gallows	.. 4	.40	16	4002	Lane	1 3	.95	29
720	Gamut	.. 4	.40	16	4003	Linn	.. 4	.50	29
724	Gander	.. 4	.40	16	4018	Loom	2 3	1.00	31
911X	Gold	1 5	2.75	10	4020X	Lard	.. 13	.65	29
920	Grant	5 7	10.00	19	4024	Lime	1 10	.90	31
1000	Gout	15 4	13.00	31	4072	Gull	68 ..	57.80	34
1001	Goat	1 4	1.45	31	4116	Mask	1 4	.85	24, 30
1002	Good	.. 13	.95	31	4118	Munster	1 4	.85	24
1003	Goblin	2 2	1.55	25	4120	Malta	1 2	.65	29
1004	Gorge	2 11	3.25	31	4124	Mire	1 6	.90	31
1005	Grace	1 9	1.25	31	4218	Milo	1 3	.95	25, 29
1006	Grade	.. 15	1.00	31	4219X	Moro	1 8	1.40	29
1114	Glen	.. 9	.60	25	4222	Myrtle	.. 5	.50	29
1116	Green	.. 9	.60	25	4222X	Mosby	.. 4	.90	29
1118	Gould	.. 10	.60	25	4230	Mish	1 ..	.85	29
1119	Gavin	.. 12	.60	25	4320	Miner	.. 13	.80	25, 29
1120	Guy	.. 12	.60	25	4330	Nuts	1 14	1.20	25, 29
1122	Hicks	.. 12	.60	25	4418X	Marsh	1 ..	.90	29
1124	Hale	.. 13	.60	25	4422	Moody	1 2	1.25	29
1125	Haig	.. 13	.60	25	4424	Muzzle	1 8	1.00	25, 29
1126	Hill	.. 13	.60	25	4924X	Main	1 6	1.10	26
1128	Hirst	.. 13	.60	25	4926	Merils	1 5	1.50	26
1214	Hoop	.. 14	.90	24	4928	Mate	1 5	1.50	26
1216	Honey	.. 14	.90	24	4950	Marvel	.. 6	.90	26
1218	Hop	1 5	.90	24	5000	Ives	40 ..	18.95	23
1220	Hugo	1 5	.90	24	5020	Mace	1 8	.75	23
1224	Hunter	1 7	.90	24	5022	Maple	1 8	.75	23
1416	Hugh	.. 8	.85	25	5024	Mink	1 8	.75	23
1618	Hutten	.. 11	.90	25, 30	5026	Menace	1 8	.75	23
1820	Hump	.. 14	.95	25	5028	Mole	1 8	.75	23
2020	Hoxy	1 4	1.35	26	5104	Moran	3 13	3.95	22
2020X	Hoax	1 3	1.35	26	5200	Narenta	29 8	9.00	23
2114	Hoxie	.. 13	.65	24	5200F	Nanny	29 8	9.00	23
2116	Hyde	.. 13	.65	24	5220	Nadeau	1 6	.50	23
2118	Hurd	1 1	.65	24	5222	Norway	1 6	.50	23
2119	Hudson	1 1	.65	24	5224	Northland	1 6	.50	23
2120	Iowa	1 1	.65	24	5228	Northport	1 6	.50	23
2122	Isbell	1 2	.65	24	5504	Norton	5 3	4.95	31
2124	Imes	1 2	.65	24	6114	Nelson	1 8	.95	24
2125	Irwin	1 2	.65	24	6116	Neola	1 8	.95	24
2126	Iola	1 2	.65	24	6118	Newark	1 9	.95	24, 30
2128	Jasper	1 2	.65	24	6119	Nick	1 9	.95	24
2214	Jockey	.. 15	.90	25	6120	Noble	1 9	.95	24, 30
2216	Juice	.. 15	.90	25	6122	Nutts	1 9	.95	24
2218	Jowl	1 4	.90	25	6124	Owl	1 9	.95	24
2220	Jobin	1 4	.90	25	6125	Oxly	1 9	.95	24
2224	Jackal	1 8	.90	25, 26, 30	6126	Otis	1 10	.95	24
2422	Jazz	1 4	1.15	25	6128	Ozan	1 10	.95	24
2830	Jack	1 10	1.45	25	6218	Oxford	2 10	2.75	30
3018	Jacose	2 14	1.50	31	6310	Paul	1 15	1.35	10
3114	Jenny	1 ..	.70	24	6316	Parrott	2 ..	1.25	24, 30
					6318	Peru	2 ..	1.25	24, 30
					6322	Grink	2 ..	1.25	26
					6500	Moco	66 ..	43.65	33

# BLACKHAWK MANUFACTURING COMPANY

## No. 1 Display Cabinet

A MERCHANDISER FOR DEALERS

When  
you see a  
"Hex"  
think of  
Blackhawk



Every Accessory and Hardware Dealer should have this attractive  
Display Cabinet

Fully described on following page

Free to dealers with Assortment

When  
you see a  
"Hex"  
think of  
Blackhawk

## No. 1 Stock Cabinet Assortment

### QUICK DETACHABLE WRENCHES



### A Real Merchandiser of Socket Wrenches

With this cabinet the dealer can make up a special set for any car, whether for car-owner or garage mechanic, or can furnish the wrench required for any bolt or nut on any car. Any Q. D. set listed in this catalog can be made up from this cabinet. We furnish with this assortment a Q. D. Wrench Manual, which lists all popular cars alphabetically, suggesting a set for every car, also giving sizes of sockets required for various bolts and nuts on every car. The cabinet is 28 inches high, 25½ inches wide and 11¾ inches deep, made of all steel and beautifully lithographed in four colors. Each drawer compartment is labeled in front, telling just what it contains. No accessory or hardware dealer can afford to be without one.

- No. 1 Stock Cabinet Assortment**—Full assortment contains 218 tools. Weight of wrenches 143 lbs.; weight of cabinet 62 lbs. List complete .....\$149.10
- No. 1A Stock Cabinet Assortment**—Half assortment contains 116 tools. Weight of wrenches, 76 lbs.; weight of cabinet 62 lbs. List complete ..... 85.75

NOTE—For List of Contents see following page.

# BLACKHAWK MANUFACTURING COMPANY

When  
you see a  
"Hex"  
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Blackhawk

## Contents of No. 1 Stock Cabinet Assortment

### WRENCH HANDLES AND PARTS

Four No. T4 offset and T handles.  
Four No. T5 double end handles.  
Four No. 110X offset handles.  
Four No. T15 half speeder or crank handles.  
Four No. 3310 long T handles.  
Four No. 500 brace wrenches.  
Four No. 610 speeders, 19 $\frac{1}{8}$  in. overall.  
Four No. 911X ratchet handles, 10 in. long.  
Two No. T3 reversible ratchets.  
Four No. T60 extension bars, 6 in., with speed grip.  
Four No. T8 extension bars, 8 in. long.  
Four No. T10 extension bars, 10 in. long.  
Two No. T4X heavy duty sliding tee.  
Two No. T8X heavy duty extension bar, 8 $\frac{1}{2}$  in. long.  
Two No. T17X heavy duty extension bar, 17 in. long.

### HEXAGON SOCKETS

Six No. 14 hexagon sockets.  
Ten each Nos. 16, 18, 20 and 24 hexagon sockets.  
Six each Nos. 22 and 28 hexagon sockets.  
Five each Nos. 19, 25, 26 and 30 hexagon sockets.  
Three each Nos. 31, 34 and 36 hexagon sockets.  
Four No. 32 hexagon sockets.  
Two each Nos. 40, 36X, 40X, 44X, 46X, 48X, 50X and 52X hexagon sockets.

### SQUARE SOCKETS

Three each Nos. 012, 014, 016, 018 and 020 square sockets.  
Two each Nos. 019, 022, 024, 028, 032, 034 and 040 square sockets.

### UNIVERSAL JOINTS

Two each Nos. T16, T18, T20, T22 and T24 universal joints.  
One No. T28 universal joint.  
Three No. T2 universal joints.

### ADAPTERS

Two each Nos. T9 and T9X adapters.

### TIE ROD SOCKETS

Three No. T1 tie rod sockets.

### VALVE GRINDER ATTACHMENTS

Three No. T11 valve grinder attachments.

### SPARK PLUG SOCKETS

Two each Nos. 128, 130 and 136 spark plug sockets.  
TOTAL CONTENTS—218 tools.

## Contents of No. 1A Stock Cabinet Assortment

### WRENCH HANDLES AND PARTS

Three No. T4 offset and T handles.  
Two No. T5 double end handles.  
Two No. 110X offset handles.  
Two No. T15 half speeder or crank handles.  
Three No. 3310 long T handles.  
Two No. 500 brace wrenches.  
Two No. 610 speeders, 19 $\frac{1}{8}$  in. over all.  
Two No. 911X ratchet handles, 10 in. long.  
Two No. T60 extension bars, 6 in., with speed grip.  
One No. T3 reversible ratchet.  
Two No. T8 extension bars, 8 in. long.  
Two No. T10 extension bars, 10 in. long.  
One No. T4X heavy duty sliding tee.  
One No. T8 heavy duty extension bar, 8 $\frac{1}{2}$  in. long.  
One No. T17X heavy duty extension bar, 17 in. long.

### HEXAGON SOCKETS

Three No. 14 hexagon sockets.  
Six each Nos. 16, 20 and 24 hexagon sockets.  
Eight No. 18 hexagon sockets.  
Four No. 22 hexagon sockets.  
Three each Nos. 19, 25, 26 and 28 hexagon sockets.  
Two each Nos. 30, 31, 32 and 34 hexagon sockets.  
One each Nos. 36, 40, 36X, 40X, 44X, 46X, 48X, 50X and 52X hexagon sockets.

### SQUARE SOCKETS

One each Nos. 012, 014, 016, 019, 022, 024, 028, 034 and 040 square sockets.  
Two each Nos. 018 and 020 square sockets.

### UNIVERSAL JOINTS

One each Nos. T16, T18 and T20 universal joints.  
Two No. T2 universal joints.

### ADAPTERS

One No. T9 and T9X adapters.

### TIE ROD SOCKETS

One No. T1 tie rod socket.

### VALVE GRINDER ATTACHMENTS

Two No. T11 valve grinder attachments.

### SPARK PLUG SOCKETS

One each Nos. 128, 130 and 136 spark plug sockets.  
TOTAL CONTENTS—116 tools.

NOTE—Wrench sets for any car can be made up from the above cabinet assortments used in conjunction with our special steel wrench set boxes described on following pages. List of wrenches adaptable to the various makes of cars will be found in our Q. D. Wrench Manual, "A Set for Every Car."

When  
you see a  
"Hex"  
think of  
Blackhawk

## Blackhawk Q. D. Wrenches

BLACKHAWK handles are made of special steel. All attachments and sockets are heat treated wherever necessary. Notice their husky appearance and tough baked-on black finish. Each tool perfectly balanced.

### Q. D. LONG AND SHORT TEE HANDLES



#### Long

1/2 in. diameter, shank 12 in. long

No. 310—Weight 1 lb. 5 oz. .... Each  
\$0.80

#### Short

1/2 in. diameter, shank 6 in. long

No. 210—Weight 1 lb. 1 oz. .... Each  
\$0.75

### Q. D. OFFSET HANDLES



#### With Knurled Grip

5/8 in. diameter, 10 1/8 in. long

No. 110X—Weight 1 lb. 2 oz. .... Each  
\$0.75  
Old No. 110—Weight 12 oz. .... .70

### Q. D. SPEEDER HANDLES



1/2 in. diameter, handle 28 in. long, with steel knob.

No. 6310—Weight 2 lbs. .... Each  
\$1.35

### Q. D. TEE HANDLES



#### With Speed Grip

Handle 7 1/4 in. wide, 1/2 in. diameter, shank 12 in. long.

No. 3310—Weight 1 1/2 lbs. .... Each  
\$1.00

### Q. D. RATCHET WRENCHES



Made from high grade steel, heat treated. Rotation ball and spring in lug engage slots in ratchet wheel and lock lug in same. Will not stick in sockets.

The 1/2 in. square ratchet lug can easily be pushed to the other side, thus changing the direction of ratchet.

No. 911X—Complete with one ratchet lug. Weight 1 lb. 5 oz. .... Each  
\$2.75  
No. T13—Extra ratchet lug. Weight 2 oz. .... .35

### Q. D. BRACE HANDLES



1/2 in. diameter handle. This brace may be used with extension bar, universal joint, etc. Has one-piece steel grips. A very useful tool.

No. 500—Weight 1 lb. 7 oz. .... Each  
\$1.20

### Q. D. HALF SPEEDER OR CRANK HANDLES



5/8 in. diameter, 5 in. shank, 4 1/4 in. handle.

No. T15—Weight 1 1/4 lbs. .... Each  
\$1.00

### Q. D. SPEEDER HANDLE



1 1/8 in. diameter, handle 19 in. long, with steel knob.

No. 610—Weight 1 lb. 15 oz. .... Each  
\$1.05

### SLIDING TEE HANDLES



1 1/8 in. diameter, 10 1/4 in. long. Slides freely in the wrench head. Used with extension bars. Makes either L or tee wrenches.

No. T4—Weight 15 oz. .... Each  
\$0.60

# BLACKHAWK MANUFACTURING COMPANY

## Blackhawk Q. D. Wrenches and Attachments

When  
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Blackhawk

All BLACKHAWK Q. D. handles can be used with all our sockets, combination sets or attachments. They are also interchangeable with all makes of sockets having the 1/2 in. standard opening. This gives BLACKHAWK Q. D. wrenches the greatest possible range of utility and makes them easily adapted to the needs of anyone using wrenches.

### Q. D. UNIVERSAL JOINT SOCKETS



Used in connection with all Q. D. handles. Are made extra strong, properly heat treated. Save you lots of time reaching those nuts hidden under crank cases that cannot be reached with regular sockets. Will fit any make handle that has standard 1/2 in. shank.

No.	Socket Sizes	Each
T16	1/2 in. hexagon	\$1.50
T18	3/8 in. hexagon	1.50
T20	5/8 in. hexagon	1.50
T22	1 1/8 in. hexagon	1.75
T24	3/4 in. hexagon	1.75
T26	1 1/4 in. hexagon	1.75
T28	7/8 in. hexagon	1.75

Weight 7 oz. each

### SOCKET ADAPTERS



No. T9-X—Adapter for heavy duty sockets to standard 1/2 in. handles. Each .....\$0.50  
No. T9-XX—Adapter for extra heavy duty sockets to 3/4 in. heavy duty handles. Each.....\$0.75

No. T9—Adapter for standard 1/2 in. sockets to 3/4 in. heavy duty handles. Each .....\$0.50



No. T90—Adapter for heavy duty 3/4 in. sockets to extra heavy duty handles. Each .....\$0.75

Above adapters are made for convenience and will make entire BLACKHAWK standard, heavy duty and extra heavy duty sockets and handles interchangeable. For best results we recommend the use of sockets with the size handles for which they were designed.

### Q. D. VALVE GRINDER ATTACHMENTS



For any Q. D. speeder handle. Points will fit all valves. Very useful.

No. T11.....\$0.50 Each

### DRAG LINK ADJUSTING WRENCHES



No. T1—Tie rod or drag link adjusting wrench .....\$0.50 Each

### Q. D. EXTENSION BARS

#### UNIVERSAL JOINTS



Made from the very best material. Heat treated.

Has 1/2 in. standard male and female connections. May be used with any Q. D. handle wrench or parts contained in our combination sets.

No. T2—Weight 6 oz.....\$1.65 Each

#### Q. D. RATCHETS



A strong reversible ratchet attachment used with all Q. D. handles and extension bars, making it possible to use a ratchet wrench in inaccessible places where the standard wrench cannot be used.

No. T3—Ratchet. Weight 8 oz..\$2.25 Each



Nos.	Length	Weight	Each
T6	6 in.	7 oz.	\$0.65
T8	8 in.	10 oz.	.70
T10	10 in.	13 oz.	.75



Nos.	Length	Weight	Each
T60	6 in.	12 oz.	\$0.75
T80	8 in.	15 oz.	.80
T100	10 in.	1 lb. 2 oz.	.85

### Q. D. BIT SHANKS



Nos.	Length	Weight	Each
4B	4 in.	4 oz.	\$0.65
6B	6 in.	5 oz.	.75
8B	8 in.	7 oz.	.80

### Q. D. STRAIGHT BARS



With these bars the mechanic can make his own handles to fit his requirements by bending them to the desired shape.

Nos.	Length	Weight	Each
218	18 in.	1 lb. 7 oz.	\$0.75
230	30 in.	2 lbs. 9 oz.	.90

### Q. D. DOUBLE END OFFSET



3/8 in. diameter, 3x10 in. long  
No. T5—Weight 14 oz.....\$0.60 Each

When  
you see a  
"Hex"  
think of  
Blackhawk

## Blackhawk Q. D. Sockets

Machined from the solid bar steel (of special analysis), accurately broached  $\frac{1}{16}$  in. oversize, insuring a perfect fit. Properly heat treated, assuring greatest service, all sockets having proper depth and thickness of wall to give greatest efficiency. Tapered to go in tight places. Every socket guaranteed.



Showing Taper of Hex Sockets

### STANDARD HEX SOCKETS

Q. D.

$\frac{1}{8}$ " Sq. Handle Openings

Table of Standard Hex Sockets

Socket No.	Socket Size	U.S. S. Nuts and Bolts	Hex. Hd. Cap Screws U. S. Std.	S.A.E. Std. Nuts and Cap Screws	Mfg. Std. Bolt Hds.	Coach Screws	List Price
14	7-16		1-4	1-4	1-4		30
16	1-2	1-4	5-16	5-16			30
18	9-16		3-8	3-8		3-8	30
19	19-32	5-16					30
20	5-8		7-16	7-16	3-8		30
22	11-16	3-8					30
24	3-4		1-2	1-2		1-2	40
25	25-32	7-16					40
26	13-16		9-16		1-2		40
28	7-8	1-2	5-8	9-16			40
30	15-16			5-8		5-8	50
31	31-32	9-16					50
*32	1		3-4	11-16	5-8		50
*34	1:1-16	5-8		3-4			65
36	1:1-8		7-8			3-4	65
40	1:1-4	3-4	1	7-8			65

\* Nos. 32, 34 can be furnished with  $\frac{1}{4}$ -inch opening at same list price add X to number.

### HEAVY DUTY SOCKETS

Q. D.

$\frac{1}{8}$ " Sq. Handle Openings

Sockets are interchangeable with Std. or Extra Heavy Duty Sockets or Handles by use of Adapters

Table of Heavy Duty Hex. Sockets

Socket No.	Socket Size	U.S. S. Nuts and Bolts	Hex. Hd. Cap Screws U. S. Std.	S.A.E. Std. Nuts and Cap Screws	Mfg. Std. Bolt Hds.	Coach Screws	List Price
36x	1:1-8		7-8			3-4	70
38x	1:3-16				3-4		70
40x	1:1-4	3-4	1	7-8			70
44x	1:3-8		1:1-8		7-8		80
46x	1:7-16	7-8		1			80
48x	1:1-2		1:1-4			1	80
50x	1:9-16				1		1.00
52x	1:5-8	1		1:1-8			1.20

### EXTRA HEAVY DUTY SOCKETS

Q. D.

$\frac{1}{8}$ " Sq. Handle Openings

Table of Extra Heavy Duty Hex. Sockets

Socket No.	Socket Size	U. S. S. Nuts and Bolts	Hex. Hd. Cap Screws U. S. Std.	S.A.E. Std. Nuts and Cap Screws	Mfg. Std. Bolt Hds.	List Price
40xx	1:1-4	3-4	1	7-8		1.00
46xx	1:7-16	7-8		1		1.25
52xx	1:5-8	1		1:1-8		1.60
58xx	1:13-16	1:1-8		1:1-4	1:1-8	2.20
64xx	2	1:1-4		1:3-8	1:1-4	2.60
70xx	2:3-16	1:3-8		1:1-2	1:3-8	3.00
76xx	2:3-8	1:1-2			1:1-2	3.50

ORDER

BY

STOCK

NUMBERS

### STANDARD SQUARE SOCKETS

Q. D.

$\frac{1}{8}$ " Sq. Handle Openings

Table of Square Sockets

Socket No.	Socket Size	U. S. S. Nuts and Bolts	U. S. S. Cap Screws	Square Head Set Screws	Coach Screws	List Price
012	3-8		1-4	3-8	1-4	30
014	7-16		5-16	7-16		30
016	1-2	1-4	3-8	1-2		35
018	9-16		7-16	9-16	3-8	35
019	19-32	5-16				40
020	5-8		1-2	5-8		40
022	11-16	3-8	9-16			40
024	3-4		5-8	3-4	1-2	50
025	25-32	7-16				50
028	7-8	1-2	3-4	7-8		60
032	1	9-16		1		60
034	1:1-16	5-8				70
040	1:1-4	3-4	1	1:1-4		80



How Q. D. Sockets Slip On and Off

# BLACKHAWK MANUFACTURING COMPANY

When  
you see a  
"Hex"  
think of  
Blackhawk

## Special Sockets



### SPARK PLUG SOCKETS

- No. 128—Fits all  $\frac{7}{8}$  in. spark plugs.....\$0.65  
No. 130—Fits all  $\frac{1}{2}$  in. spark plugs (Ford size)..... .65  
No. 136—Fits all  $1\frac{1}{8}$  in. spark plugs..... .75



### DOUBLE END SOCKET

This socket specially designed for use on Ford front wheels.  $1\frac{3}{4}$  in. hexagon socket fits lock nuts,  $1\frac{1}{8}$  in. oval opening fits adjustable cone. Can be used with  $\frac{1}{2}$  in. Q. D. handles.

- No. 451—Weight  $1\frac{1}{4}$  lbs. Price.....\$0.75



No. 438

### CAM GEAR LOCK NUT WRENCH FOR FORD CARS

Can be used with any standard  $\frac{1}{2}$  in. Q. D. handle.

- No. 438—Weight 1 lb. 14 oz. Price.....\$0.75



No. 414



No. 416



No. 432

- |   |        |
|---|--------|
|   | Each   |
| No. 414—Special Alemite Socket.....     | \$0.50 |
| No. 416—Wing Nut Socket.....            | .75    |
| No. 432—Fan shaft Socket for Fords..... | .40    |

## Metal Cases for Q. D. Wrench Sets

Stamped from twenty gauge sheet steel, finished in bright black baked enamel, handles securely fastened. Every dealer who has one of our stock cabinets should put in a stock of these boxes in order to be able to make up sets for use with the various makes of cars. List of tools used in the various car sets will be found in our special Q. D. Wrench Manual, "A Set for Every Car."



No. A



No. B



No. C



No. D

Finished in bright black baked enamel.

- |  |        |
|--|--------|
|  | Each   |
| No. A—16 in. long, $6\frac{3}{4}$ in. wide, $2\frac{1}{2}$ in. high. For car owners' sets and No. 18A set.....                       | \$2.50 |
| No. B—19 1-16 in. long, 5 9-16 in. wide, $2\frac{1}{2}$ in. high. For No. 35B heavy duty set.....                                    | 2.50   |
| No. C—19 $\frac{7}{8}$ in. long, $8\frac{3}{8}$ in. wide, $2\frac{1}{2}$ in. high. For all Q. D. service sets and No. 22C and 32C... | 3.00   |
| No. D—23 $\frac{1}{8}$ in. long, 11 in. wide, $2\frac{1}{2}$ in. high. For No. 43D large service sets.....                           | 6.00   |
| No. E—23 $\frac{1}{8}$ in. long, 11 in. wide, $3\frac{5}{8}$ in. high. For No. 12 extra heavy duty set No. 12 E.....                 | 6.50   |

When  
you see a  
"Hex"  
think of  
Blackhawk

## Blackhawk Q. D. Socket Wrench Sets

NO. 18A SET



Set contains 18 tools. A very handy compact set of Q. D. wrenches, handles and sockets for mechanics. Also makes a very compact set for car owner who makes his own repairs.

### Contents of Set

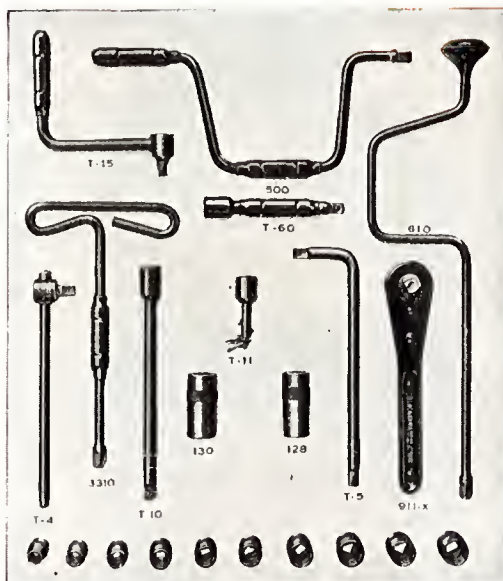
One No. 911X ratchet handle.  
One No. T4 sliding tee and offset handle.  
One No. T15 half speeder handle.  
One No. T60 extension bar with speed grip.  
One No. T10 extension bar.  
One No. 500 brace handle.  
One each Nos. 128 and 130 spark plug sockets.  
One each Nos. 14, 16, 18, 19, 20, 22, 24, 25, 26 and 28 hexagon sockets.

Per Set

No. 18A Set—Complete, packed in Metal Case No. A. \$13.10

Weight Per Set 15 lbs.

NO. 22C SET



Set contains 22 tools, covering complete range of handles and 10 popular sizes of hexagon sockets. Especially adapted for mechanics.

### Contents of Set

One No. 911X ratchet handle.  
One No. 610 speeder handle.  
One No. 500 brace handle.  
One No. T5 offset handle.  
One No. T10 extension bar.  
One No. T60 speed grip extension bar.  
One No. T15 half speeder handle.  
One No. T4 sliding tee.  
One No. 3310 tee handle with speed grip.  
One No. T11 valve grinder attachment.  
One each Nos. 128 and 130 spark plug sockets.  
One each Nos. 14, 16, 18, 19, 20, 22, 24, 25, 26 and 28 hexagon sockets.

Per Set

No. 22C Set—Complete, packed in Metal Case No. C. \$16.40

Weight Per Set 21 lbs.

# BLACKHAWK MANUFACTURING COMPANY

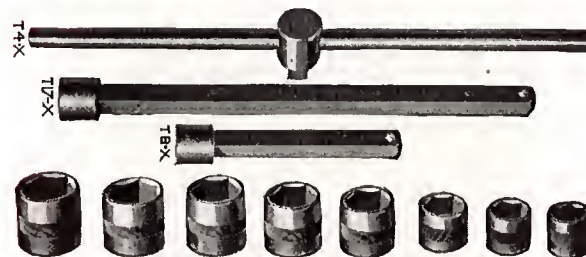
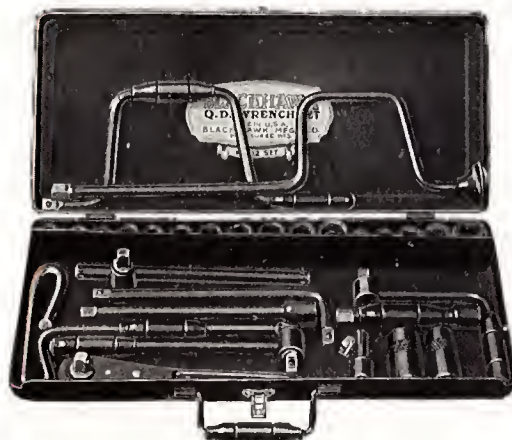
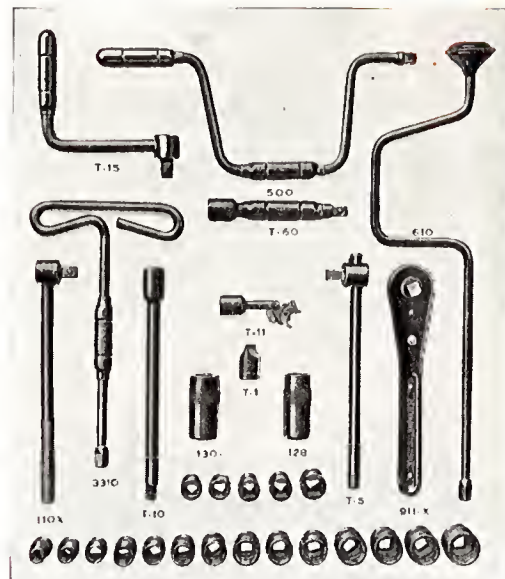
## Blackhawk Q. D. Socket Wrench Sets

When  
you see a  
"Hex"  
think of  
Blackhawk

NO. 32C SET



NO. 43D SET



Set contains 32 tools. A very complete set for garage use. Will give the mechanic the range of sizes and types of handles he needs for almost any kind of work.

### Contents of Set

One No. 911X ratchet handle.  
One No. 610 speeder handle.  
One No. 500 brace handle.  
One No. T10 extension bar.  
One No. T60 extension bar with speed grip.  
One No. T15 half speeder handle.  
One No. T4 sliding tee.  
One No. 3310 tee handle with speed grip.  
One No. T11 valve grinder attachments.  
One No. 110X offset handle.  
One No. T1 tie rod socket.  
One each Nos. 012, 014, 016, 018 and 020 square sockets.  
One each Nos. 14, 16, 18, 19, 20, 22, 24, 25, 26, 28, 30, 31, 32 and 34 hexagon sockets.  
One each Nos. 128 and 130 spark plug sockets.

No. 32C Set—Complete in Metal Case No. C.....  
Per Set \$20.60  
Weight Per Set 23½ lbs.

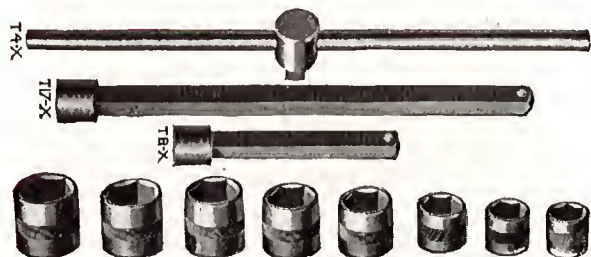
Set contains 43 tools. A superior service set of Q. D. wrenches. Made up by combining No. 32 regular service set and No. 35 heavy duty set and all tools contained in Nos. 32 and 35 sets are included in the contents of No. 43 set. With this set the mechanic has every necessary tool for working on all automobiles and largest trucks.

No. 43D Set—Complete in Metal Case No. D.....  
Per Set \$32.95  
Weight Per Set 48½ lbs.

When  
you see a  
"Hex"  
think of  
Blackhawk

## Blackhawk Q. D. Heavy Duty Socket Wrench Set

NO. 35B SET



Heavy duty socket and handles for industrial use, trucks, tractors, farm engines and machinery.

Every garage should have one of these sets, especially for wheel, drive shaft, axle shaft and steering arm nuts. Case is made of 20 gauge steel.

Sockets have  $\frac{3}{4}$  in. handle openings

### Contents of Set

One No. T4X sliding tee handle, 19 in. long, bar made from  $1\frac{1}{2}$  in. stock with  $\frac{3}{4}$  in. square shank on sliding socket adapter.  
One No. T8X extension bar,  $8\frac{1}{2}$  in. long.  
One No. T17X extension bar 17 in. long.  
Eight hexagon sockets, sizes  $1\frac{1}{8}$  to  $1\frac{5}{8}$  in., Nos. 36X, 38X, 40X, 44X, 46X, 48X, 50X and 52X.

No. 35 Set—Complete in Wooden Box.....\$10.30  
No. 35B Set—Complete in Metal Case No. B..... 11.80

Weight Per Set 20 $\frac{1}{2}$  lbs.

## Blackhawk Q. D. Drain Plug Service Set

NO. 23 SET



Sockets will fit a wide range of cars. For removing plugs to drain crank cases, also for drain and refill plugs in transmission and differential housings. Sliding bar handle can be used as a tee or offset.

Very essential in all oil and gasoline service stations.

### Contents of Set

One No. T4 sliding handle.  
One No. T6 extension bar.  
One No. T1 attachment for drain plugs with slots.  
One each hexagon sockets, Nos. 16, 24, 30, 32, 34 and 36.  
One each square sockets, Nos. 014, 016, 018, 020, 022, 024 and 028.  
One each square plugs, Nos. 710, 712, 714, 716, 718, 720 and 724.

No. 23 Set—Complete in hinged cover wood box....\$11.90

Weight Per Set 10 $\frac{1}{2}$  lbs.

### SQUARE PLUGS ONLY

For No. 23 Set

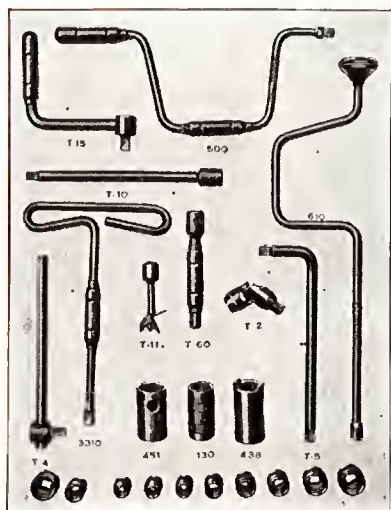
Nos.	710	712	714	716	718	720	724
Inches	$\frac{1}{8}$	$\frac{3}{8}$	$\frac{1}{2}$	$\frac{5}{8}$	$\frac{3}{4}$	$\frac{7}{8}$	$1\frac{1}{8}$
Each	\$0.40	.40	.40	.40	.40	.40	.40

# BLACKHAWK MANUFACTURING COMPANY

## Special Q. D. Wrench Sets For Fords

When  
you see a  
"Hex"  
think of  
Blackhawk

### NO. 423C SET



This set is especially grouped to meet the needs of the Ford mechanic.

#### Set Contains

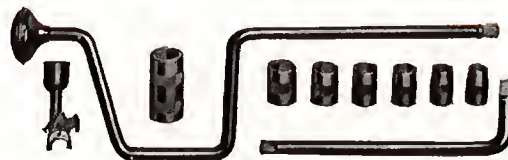
One each Nos. 500 brace, T15 crank handle, 610 speeder, T60 6 in. extension bar, T10 10 in. extension bar, 3310 tee handle, T4 sliding tee, T5 offset handle, T11 valve grinder attachment, T2 universal joint, 451 wheel cone and lock nut socket, 438 cam gear lock nut socket, 130  $\frac{1}{8}$  in. Ford spark plug socket, 432 fan shaft socket.  
One each hexagon sockets Nos. 14, 16, 18, 20, 22, 24, 28, 30.  
One square socket No. 018.

No. 423C Set—Set in Metal Case No. C.....Per Set  
\$16.35

Weight 22 lbs.

### NO. 411 SET

#### ECONOMY SET FOR FORD



#### Set Contains

One each No. 610 T5 handles.  
One each Nos. T11, 130, 16, 18, 20, 22, 24, 28.  
No. 411 Set—Set in Fibre Box. Each.....\$4.50

Weight 5 lbs.

### NO. 150 SET



"HEXET"

An inexpensive socket wrench set designed especially for the individual car owner's use. Sockets machined from solid bar steel and properly heat treated. Set contains 6 sockets, 1 offset and extension handle. Packed in metal container.

#### Hexet Contains

One each  $\frac{1}{2}$ ,  $\frac{3}{8}$ ,  $\frac{5}{8}$ ,  $\frac{1}{4}$ ,  $\frac{3}{4}$ ,  $\frac{7}{8}$  in. sockets.  
One only offset handle, length  $7\frac{1}{2}$  in.

No. 150 Set—Hexet .....Each  
\$1.25

Packed six sets in attractive counter display carton.

Weight of Set 2 lbs.

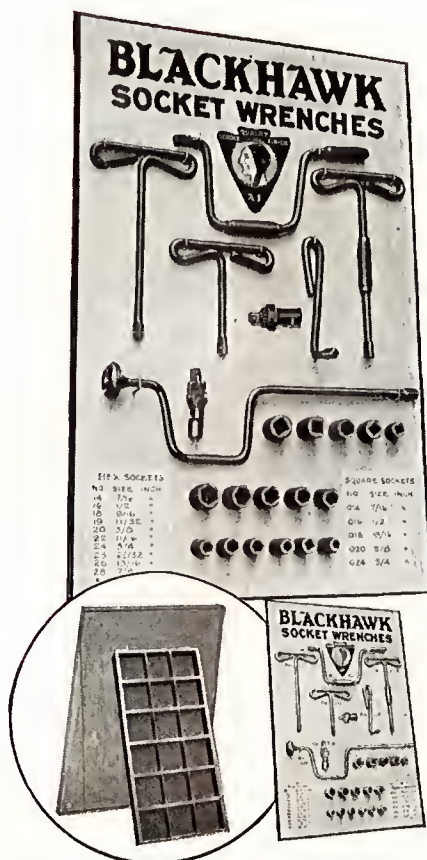
When  
you see a  
"Hex"  
think of  
Blackhawk

## Blackhawk Quick Detachable Wrench Board

### Contents of No. 200 Display

#### Q. D. HANDLES

	Each
3 No. 3310—12 in. tee with speed grip. Price...	\$1.00
3 each No. 310—12 in. tee without speed grip...	.80
3 each No. 210 6 in. tee handle .....	.75
3 each No. 110 offset handle .....	.70
3 each No. 500—Brace handle .....	1.20
3 each No. 610—Speeder handle .....	1.05
1 No. T2 universal joints.	1.65
2 No. T3 Q. D. ratchets..	2.25



### HEXAGON SOCKETS

	Each
3 each No. 14— $\frac{7}{16}$ in. . .	\$0.30
3 each No. 16— $\frac{1}{2}$ in. . .	.30
6 each No. 18— $\frac{9}{16}$ in. . .	.30
3 each No. 19— $\frac{19}{32}$ in. . .	.30
6 each No. 20— $\frac{5}{8}$ in. . .	.30
3 each No. 22— $\frac{11}{16}$ in. . .	.30
3 each No. 24— $\frac{3}{4}$ in. . .	.40
3 each No. 25— $\frac{25}{32}$ in. . .	.40
3 each No. 26— $\frac{13}{16}$ in. . .	.40
3 each No. 28— $\frac{7}{8}$ in. . .	.40
3 each No. 30— $\frac{15}{16}$ in. . .	.50

39 Hexagon sockets.

### SQUARE SOCKETS

	Each
2 No. 014— $\frac{7}{16}$ in. . . . .	\$0.30
2 No. 016— $\frac{1}{2}$ in. . . . .	.35
2 No. 018— $\frac{9}{16}$ in. . . . .	.35
2 No. 020— $\frac{5}{8}$ in. . . . .	.40
2 No. 024— $\frac{3}{4}$ in. . . . .	.50

10 square sockets.

**No. 200 Board**—Complete with 49 sockets, 18 handles, 2 universal joints and 2 ratchets. Net weight 90 lbs. List price.....\$39.95

This special assortment was made up to meet the demand for a large range of wrenches. The handles and sockets are instantly interchangeable and 185 combinations can be made up from this set.

The No. 200 Display Board has handy compartments at the back for holding sockets, each compartment plainly marked with the size socket it holds.

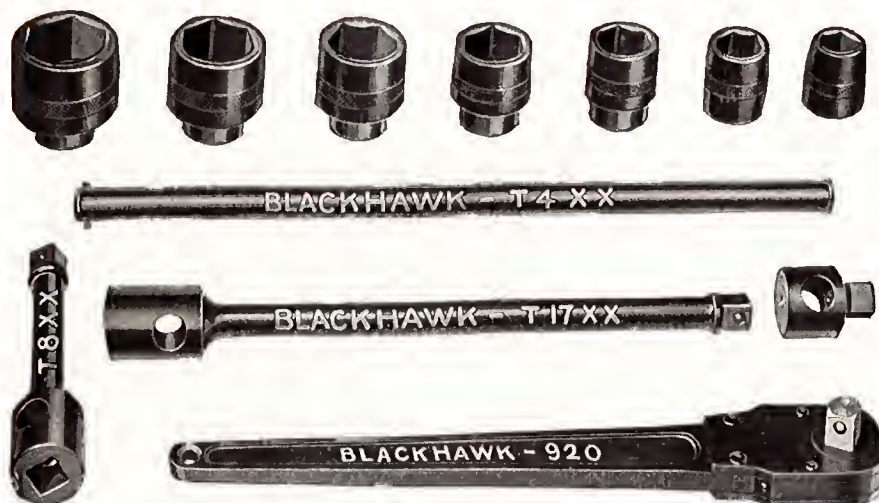
Sockets are machined from special analysis solid bar steel, heat treated. Will give unlimited service and are interchangeable with all makes of sockets having  $\frac{1}{2}$  in. standard opening.

Display Board has metal front and is beautifully lithographed in four colors. Size of display, 22x34 inches.

When  
 you see a  
 "Hex"  
 think of  
 Blackhawk

## Blackhawk Q. D. Extra Heavy Duty Industrial Set

### NO. 12 SET



Especially adapted for extra heavy duty industrial work of all kinds—Power Plants, Electric and Steam Railways, Bridge Building, etc.

#### Contents of Set

One ratchet wrench handle, 20 in. long.....	Number 920	Each \$10.00
One sliding bar, 1 in. diameter, 24 in. long.....	T4XX	1.65
One short extension, 1 in. diameter, 9 in. long.....	T8XX	3.30
One long extension, 1 in. diameter, 18 in. long.....	T17XX	4.00
One offset adapter.....	T40XX	1.60
One hexagon socket, 1 1/4 in.....	40XX	1.00
One hexagon socket, 1 1/2 in.....	46XX	1.25
One hexagon socket, 1 5/8 in.....	52XX	1.60
One hexagon socket, 1 3/4 in.....	58XX	2.20
One hexagon socket, 2 in.....	64XX	2.60
One hexagon socket, 2 1/8 in.....	70XX	3.00
One hexagon socket, 2 3/8 in.....	76XX	3.50
No. 12 Set —Complete in substantial Wooden Box. Weight 46 lbs.....		\$35.70
No. 12E Set —Complete in Steel Case No. E. Weight 55 lbs.....		42.20
No. T13XX —Extra plug for 920. Each.....		1.00
No. T013XX —Extra plug adapters reducing to 3/4 in. to fit heavy duty. Each.....		1.00

Sockets have 7/8 in. square handle openings



Showing No. 12 Set in No. E steel case. Case is made of extra heavy gauge steel.

Set No. 12E—Complete.....\$42.20



This illustration gives idea of the strength of 920.

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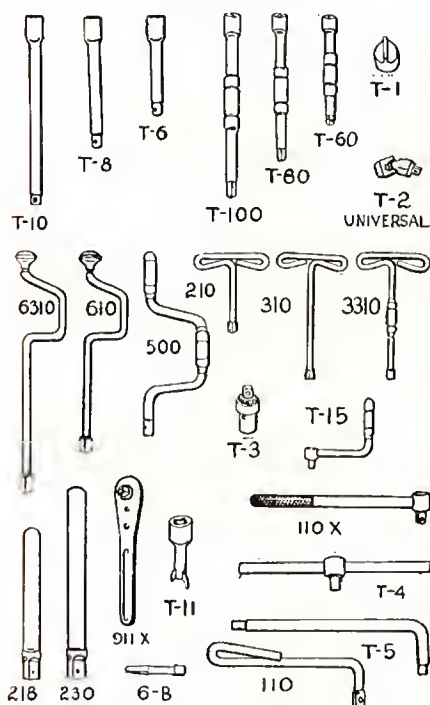
When  
you see a  
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think of  
**Blackhawk**

## Blackhawk Illustrated Size Guide

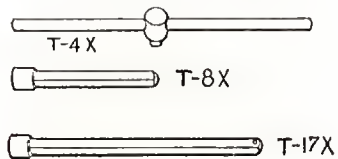
### Wrenches and Sockets

Q. D.  
QUICK DETACHABLE  
SOCKET HANDLES

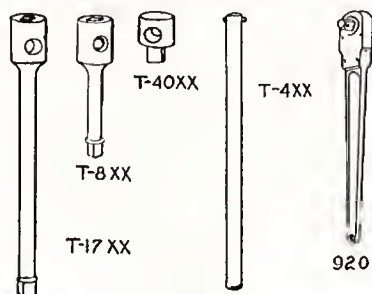
## STANDARD 1/2" SQ



## HEAVY DUTY 5/8" SQ



EXTRA HEAVY INDUSTRIAL  
7/8" SQUARE

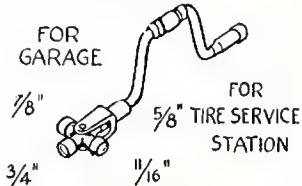


### STANDARD COMBINATIONS OF SIZES IN DIFFERENT TYPES OF WRENCHES

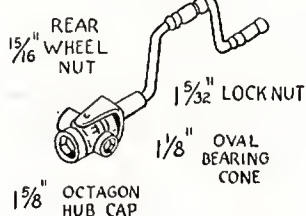
$\frac{7}{16} \times \frac{1}{2}$	1416	$\frac{475}{1214}$	2214
$\frac{1}{2} \times \frac{9}{16}$	1618	$\frac{575}{1216}$	2216
$\frac{9}{16} \times \frac{5}{8}$	1820	1218	2218
$\frac{9}{16} \times \frac{3}{4}$	4218	4924X	
$\frac{5}{8} \times \frac{1}{16}$		1220	2220
$\frac{1}{16} \times \frac{3}{4}$	2422		
$\frac{3}{4} \times \frac{7}{8}$		1224	2224
$\frac{7}{8} \times \frac{15}{16}$	2830		
$1 \times \frac{1}{16}$	3432		
$1\frac{1}{8} \times 1\frac{1}{4}$	3640		

### TRIPLE SOCKET WRENCHES

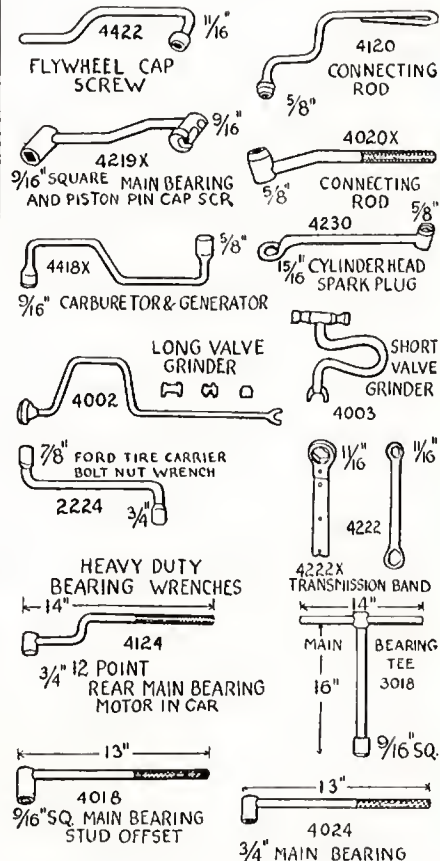
FOUR-IN-ONE  
UNIVERSAL RIM WRENCH  
NO. 5104



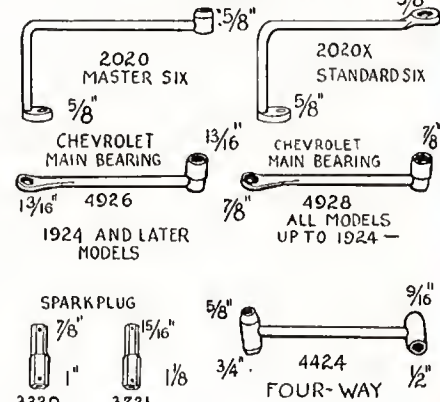
FOUR-IN-ONE  
WHEEL ASSEMBLY WRENCH  
FOR FORD CARS  
NO. 5504



SPECIAL WRENCHES  
FORD  
CARS AND TRUCKS



## BUICK CYLINDER HEAD



When  
you see a  
"Hex"  
think of  
Blackhawk

## Blackhawk 4 in 1 Universal Rim Wrench

This wrench is a heavy duty service tool. The handle is made from  $\frac{5}{8}$  inch steel—quadruple socket is drop forged in one piece—will stand more strain than any arm can give it. Tire service and garage men welcome this new wrench, as it saves time and trouble of hunting for various size wrenches.

No springs or ratchet arrangements are used—nothing to get out of order.

The size wanted is never lost or forgotten. Fills a long felt want of tire service stations and road service cars.

Weight  $4\frac{1}{2}$  lbs. Packed in individual cartons.

4 Wrenches  
All in One **\$3.95**

Sizes:

$\frac{5}{8}$

$\frac{11}{16}$

$\frac{3}{4}$

$\frac{7}{8}$



A turn of the  
wrist to change  
socket size—  
Automatically  
locks tight.



Frozen nuts are quickly loosened by  
using the side leverage of the 4 in 1 as  
illustrated.

When  
you see a  
"Hex"  
think of  
Blackhawk

## Blackhawk Rim Wrenches

### RIM WRENCH SPECIFICATIONS

*These wrenches fit disc wheels*

*Make and Model  
of Car*

	Series	Series
Auburn Six .....	5020	5220
Auburn Eight .....	5024	5224
Buick, all models.....	5024	5224
Cadillac V-63 .....	5020	5220
Case .....	5024	5224
Chandler 33 .....	5024	5224
Chevrolet .....	5024	5224
Chrysler .....	5024	5224
Cleveland .....	5024	5224
Davis .....	5024	5224
Diana .....	5024	5224
Dodge .....	5024	5224
Durant .....	5024	5224
Elcar Six .....	5020	5220
Elcar Eight .....	5024	5224
Essex .....	5024	5224
Flint, all models.....	5024	5224
Ford .....	5020	5220
Franklin .....	5024	5224
Gardner, all models....	5024	5224
Gray .....	5024	5224
Hudson .....	5024	5224
Hupmobile, all models..	5020	5220
Jewett .....	5024	5224
Jordan, all models.....	5024	5224
Kissel, all models.....	5024	5224
Lexington .....	5020	5220
Lincoln .....	5020	5220
Marmon 74 .....	5024	5224
Maxwell 25-C .....	5024	5224
Moon .....	5024	5224
Nash, all models.....	5024	5224
Oakland 6-54 .....	5024	5224
Oldsmobile 30 .....	5024	5224
Overland, all models....	5024	5224
Packard, all models.....	5024	5224
Paige .....	5024	5224
Peerless 6 .....	5024	5224
Peerless 8 .....	5020	5220
Pierce Arrow 80.....	5024	5224
Pierce Arrow 33.....	5022	5222
Reo T-6 .....	5022	5222
Rickenbacker, all models.	5024	5224
Rollin .....	5024	5224
Star .....	5024	5224
Stearns-Knight .....	5024	5224
Studebaker .....	5020	5220
Stutz .....	5024	5224
Velie .....	5024	5224
Willis-St. Claire .....	5024	5224
Willys-Knight .....	5024	5224
Yellow Cab Co.....	5028	5228

### DEALER'S RIM WRENCH ASSORTMENT NO. 5200

A small assortment of the three most popular sizes furnished with attractive counter display, which assures a quick turnover.



Assortment contains 18 rim wrenches as follows.

10	No. 5220	Size $\frac{5}{8}$	Each	\$0.50
3	No. 5222	Size $\frac{11}{16}$	Each	.50
5	No. 5224	Size $\frac{3}{4}$	Each	.50
No. 5200 Asst. List				9.00

Weight 29 lbs.

No. 5200-F

Assortment for Fords

No. 5200-F assortment contains 18 No. 5220 rim wrenches, Ford size only.

No. 5200-F—Asst. List .....\$9.00

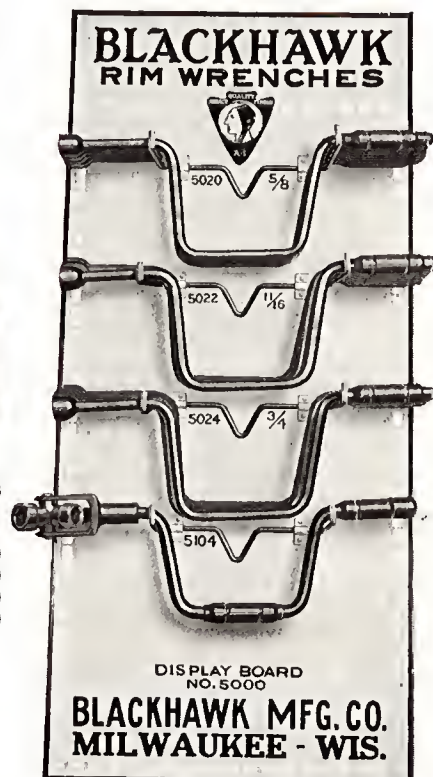
Weight 29 lbs.



Above display included with each assortment. Holds one wrench out of stock. A wonderful silent salesman when properly displayed.

Especially adapted for the small service and filling stations that have not the space to display a larger board.

### DEALER'S DISPLAY BOARD NO. 5000



An attractive display containing only 21 tools. Board beautifully lithographed in four colors. A real merchandiser at small cost.

Contains

1	No. 5104	4 in 1.....	\$3.95
8	No. 5020	Size $\frac{5}{8}$	Each .75
4	No. 5022	Size $\frac{11}{16}$	Each .75
8	No. 5024	Size $\frac{3}{4}$	Each .75

21 tools.

No. 5000—Board complete ....\$18.95

Weight of board 12 lbs., weight of tools  $34\frac{1}{2}$  lbs.

No. 5020 Series



No. 5020	Size $\frac{5}{8}$	Each	\$0.75
No. 5022	Size $\frac{11}{16}$	Each	.75
No. 5024	Size $\frac{3}{4}$	Each	.75
No. 5026	Size $\frac{13}{16}$	Each	.75
No. 5028	Size $\frac{7}{8}$	Each	.75

Length over all  $16\frac{1}{4}$  in., length of shank 4 in., weight each  $1\frac{1}{2}$  lbs.

When you see a "Hex" think of Blackhawk

## Speeders Tee's and L Wrenches

### SHORT SPEEDERS

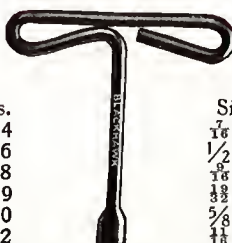


Diameter handle  $\frac{1}{2}$  in., length over all  $14\frac{3}{4}$  in.

No. 4116—Socket size  $\frac{1}{2}$  in. .... Each \$0.85  
No. 4118—Socket size  $\frac{1}{8}$  in. .... .85

Weight 1 lb. 4 oz.

### SHORT TEES



Nos.	Size
2114	$\frac{1}{8}$ in.
2116	$\frac{1}{2}$ in.
2118	$\frac{1}{8}$ in.
2119	$\frac{3}{8}$ in.
2120	$\frac{5}{8}$ in.
2122	$\frac{1}{4}$ in.
2124	$\frac{3}{4}$ in.
2125	$\frac{3}{8}$ in.
2126	$\frac{1}{8}$ in.
2128	$\frac{7}{8}$ in.

Short tee 6 in. long

### L WRENCHES



No. 475

$\frac{1}{8}$  x  $\frac{1}{2}$  in. hexagon socket,  $3\frac{3}{4}$  x  $3\frac{3}{8}$  in. handle

A small and very handy wrench. Desirable for many uses.

No. 475—Each ..... \$0.70

Weight 7 oz.

### STANDARD SPEEDERS



Diameter handle  $\frac{1}{2}$  in., length over all  $19\frac{3}{8}$  in.

No.	Socket Size	Each
6114	$\frac{1}{8}$ in.	\$0.95
6116	$\frac{1}{2}$ in.	.95
6118	$\frac{1}{8}$ in.	.95
6119	$\frac{3}{8}$ in.	.95
6120	$\frac{5}{8}$ in.	.95
6122	$\frac{1}{4}$ in.	.95
6124	$\frac{3}{4}$ in.	.95
6125	$\frac{3}{8}$ in.	.95
6126	$\frac{1}{8}$ in.	.95
6128	$\frac{7}{8}$ in.	.95

Weight each 1 lb. 10 oz.

2100 Series—Each ..... \$0.65

Weight 1 lb. 2 oz. each

### LONG TEES



Nos.	Size
3114	$\frac{1}{8}$ in.
3116	$\frac{1}{2}$ in.
3118	$\frac{1}{8}$ in.
3119	$\frac{3}{8}$ in.
3120	$\frac{5}{8}$ in.
3122	$\frac{1}{4}$ in.
3124	$\frac{3}{4}$ in.
3125	$\frac{3}{8}$ in.
3126	$\frac{1}{8}$ in.
3128	$\frac{7}{8}$ in.

12 in. shank

3100 Series—Each ..... \$0.70

Weight 1 lb. 6 oz. each

### EXTRA LONG SPEEDER

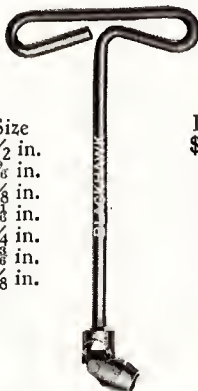


Diameter handle  $\frac{1}{2}$  in., length over all 28 in.

No. 6316—Socket size  $\frac{1}{2}$  in. .... Each \$1.25  
No. 6318—Socket size  $\frac{1}{8}$  in. .... 1.25

Weight 2 lbs.; Code, Peru

### UNIVERSAL JOINT TEES



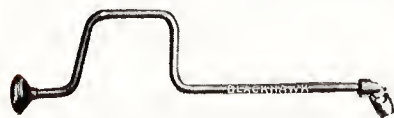
12 in. shank

A very desirable tool for general repair work.

No.	Size	Price
516	$\frac{1}{2}$ in.	\$2.00
518	$\frac{1}{8}$ in.	2.00
520	$\frac{5}{8}$ in.	2.00
522	$\frac{1}{4}$ in.	2.25
524	$\frac{3}{4}$ in.	2.25
526	$\frac{1}{8}$ in.	2.25
528	$\frac{7}{8}$ in.	2.25

Weight 1 lb. 10 oz.

### UNIVERSAL JOINT SPEEDERS



$\frac{1}{2}$  in. steel,  $20\frac{3}{8}$  in. long over all

No.	Size	Price
616	$\frac{1}{2}$ in.	\$2.50
618	$\frac{1}{8}$ in.	2.50
620	$\frac{5}{8}$ in.	2.50
622	$\frac{1}{4}$ in.	2.75
624	$\frac{3}{4}$ in.	2.75
626	$\frac{1}{8}$ in.	2.75
628	$\frac{7}{8}$ in.	2.75

Weight 1 lb. 14 oz.



Diameter handle  $\frac{1}{2}$  in., socket size  $\frac{1}{2}$  x  $\frac{1}{8}$  in., length of handle  $5\frac{1}{2}$  x  $5\frac{1}{2}$  in.

A very popular general service tool.

No. 575—Each ..... \$0.80

Weight 10 oz.



Diameter handle  $\frac{1}{2}$  in., length of handle 7 x 10 in.

No.	Socket Size	Each
1214	$\frac{1}{8}$ x $\frac{1}{2}$ in.	\$0.90
1216	$\frac{1}{2}$ x $\frac{1}{8}$ in.	.90
1218	$\frac{1}{8}$ x $\frac{5}{8}$ in.	.90
1220	$\frac{5}{8}$ x $\frac{1}{8}$ in.	.90
1224	$\frac{3}{4}$ x $\frac{1}{8}$ in.	.90

Weight each 1 lb. 2 oz.

### TABLE OF BOLTS AND NUTS

SOCKET SIZE	$\frac{7}{16}$	$\frac{1}{2}$	$\frac{9}{16}$	$\frac{5}{8}$	$\frac{11}{16}$	$\frac{3}{4}$	$\frac{25}{32}$	$\frac{13}{16}$	$\frac{7}{8}$
U.S.A.E. NUTS	$\frac{1}{4}$	$\frac{5}{16}$	$\frac{3}{8}$	$\frac{7}{16}$	$\frac{1}{2}$	$\frac{9}{16}$	$\frac{5}{8}$	$\frac{3}{4}$	$\frac{7}{8}$
U.S.A.E. CAP SCREWS	$\frac{1}{4}$	$\frac{5}{16}$	$\frac{3}{8}$	$\frac{7}{16}$	$\frac{1}{2}$	$\frac{9}{16}$	$\frac{5}{8}$	$\frac{3}{4}$	$\frac{7}{8}$
U.S.S. CAP SCREWS	$\frac{1}{4}$	$\frac{5}{16}$	$\frac{3}{8}$	$\frac{7}{16}$	$\frac{1}{2}$	$\frac{9}{16}$	$\frac{5}{8}$	$\frac{3}{4}$	$\frac{7}{8}$
U.S.S. NUTS	$\frac{1}{4}$	$\frac{5}{16}$	$\frac{3}{8}$	$\frac{7}{16}$	$\frac{1}{2}$	$\frac{9}{16}$	$\frac{5}{8}$	$\frac{3}{4}$	$\frac{7}{8}$
U.S.S. BOLT HEADS	$\frac{1}{4}$	$\frac{5}{16}$	$\frac{3}{8}$	$\frac{7}{16}$	$\frac{1}{2}$	$\frac{9}{16}$	$\frac{5}{8}$	$\frac{3}{4}$	$\frac{7}{8}$

**BLACKHAWK MANUFACTURING COMPANY**

When  
you see a  
"Hex"  
think of  
Blackhawk

**Off Set Wrenches****OFFSET**

Nos.	Socket Size	Each
1114	$\frac{7}{16}$	\$ .60
1116	$\frac{1}{2}$	.60
1118	$\frac{9}{16}$	.60
1119	$\frac{19}{32}$	.60
1120	$\frac{5}{8}$	.60
1122	$\frac{11}{16}$	.60
1124	$\frac{3}{4}$	.60
1125	$\frac{25}{32}$	.60
1126	$\frac{13}{16}$	.60
1128	$\frac{7}{8}$	.60

Approx. Wt. 13 oz. each

**DOUBLE END Z TYPE**

Nos.	Socket Size	Dia. Handle	Each
2214	$\frac{7}{16} \times \frac{1}{2}$	$\frac{1}{2}$	\$ .90
2216	$\frac{1}{2} \times \frac{9}{16}$	$\frac{1}{2}$	.90
2218	$\frac{9}{16} \times \frac{5}{8}$	$\frac{9}{16}$	.90
2220	$\frac{5}{8} \times \frac{11}{16}$	$\frac{9}{16}$	.90
2224	$\frac{3}{4} \times \frac{7}{8}$	$\frac{5}{8}$	.90

Approx. Wt. 1 lb. 5 oz. Length Overall 10".

1  $\frac{1}{8}$ " Hex. Socket,  $\frac{3}{4}$ " Dia. Handle, 5" Offset, Length Overall 12".

No. 1003—Wt. 2 lbs. Each...\$1.55

**SMALL HAMMER HEADS**Socket Size  $\frac{7}{16}$ - $\frac{1}{2}$ , Length 6 in., Dia. Handle  $\frac{1}{16}$ , Wt. 9 oz.

No. 1416—Each . . . . . \$ .85

Socket Sizes  $\frac{1}{2}$ - $\frac{9}{16}$ , Length 6  $\frac{3}{4}$ , Dia. Handle  $\frac{1}{2}$ ", Wt. 11 oz.

No. 1618—Each . . . . . \$ .90

**HAMMER HEAD OFFSETS**Socket Sizes  $\frac{9}{16}$ - $\frac{5}{8}$ , Length 7  $\frac{1}{2}$ ", Dia. Handle  $\frac{1}{2}$ ", Wt. 14 oz.

No. 1820—Each . . . . . \$ .95

Socket Sizes  $\frac{3}{4}$ - $\frac{11}{16}$ , Length 9  $\frac{1}{4}$ ", Dia. Handle  $\frac{9}{16}$ ", Wt. 1 lb. 4 oz.

No. 2422—Each . . . . . \$1.15

Socket Sizes  $\frac{7}{8}$ - $\frac{11}{16}$ , Length 10  $\frac{3}{4}$ ", Dia. Handle  $\frac{9}{8}$ ", Wt. 1  $\frac{1}{2}$  lbs.

No. 2830—Each . . . . . \$1.45

Socket Sizes 1" and 1  $\frac{1}{8}$ ", Length 12  $\frac{1}{4}$ ", Dia. Handles  $\frac{5}{8}$ ", Wt. 1  $\frac{3}{4}$  lbs.

No. 3432—Each . . . . . \$1.45

Socket Sizes 1  $\frac{1}{8}$ -1  $\frac{1}{4}$ , Length 13", Dia. Handle 1  $\frac{1}{8}$ ", Wt. 2  $\frac{1}{2}$  lbs.

No. 3640—Each . . . . . \$1.60

**DOUBLE SOCKET**Socket Sizes  $\frac{9}{16}$ - $\frac{3}{4}$ , Length 10", Dia. Handle  $\frac{9}{16}$ ", Wt. 1 lb. 4 oz.

No. 4218—Each . . . . . \$ .95

**TRIPLE SOCKET**Socket Sizes  $\frac{1}{2}$ - $\frac{9}{16}$ - $\frac{5}{8}$ , Length 10", Dia. Handle  $\frac{1}{2}$ ", Wt. 1 lb.

No. 144—Each . . . . . \$ .95

Socket Sizes 1  $\frac{1}{8}$ - $\frac{7}{8}$ -1  $\frac{1}{8}$ , Length 12  $\frac{1}{2}$ ", Dia. Handle 1  $\frac{1}{8}$ ", Wt. 2 lbs.

No. 4330—Each . . . . . \$1.20

Socket Sizes  $\frac{1}{2}$ - $\frac{5}{8}$ - $\frac{5}{8}$ , Length 10", Dia. Handle  $\frac{1}{2}$ ", Wt. 14 oz.

No. 4320—Each . . . . . \$ .80

**FOUR SOCKETS**Socket Sizes  $\frac{1}{2}$ - $\frac{9}{16}$ - $\frac{5}{8}$ - $\frac{3}{4}$ , Length 10  $\frac{1}{2}$ ", Dia. Handle  $\frac{9}{16}$ ", Wt. 1  $\frac{1}{2}$  lbs.

No. 4424—Each . . . . . \$1.00

When  
you see a  
"Hex"  
think of  
Blackhawk

## Miscellaneous Wrenches

### CHEVROLET WRENCHES



Diameter handle  $\frac{5}{8}$  in., socket sizes  $\frac{1}{8}$  and  $\frac{3}{4}$  in.

This wrench designed especially for use on Chevrolet cylinder head bolts, manifold nuts, clutch yoke, etc. See Chevrolet directory page for complete uses. Also a handy tool for general use.

No. 4924X—Each .....\$1.10  
Weight 1 lb. 6 oz.



Diameter handle  $\frac{5}{8}$  in., socket size  $\frac{1}{8}$  in.

Box end drop forged and ground to  $\frac{1}{8}$  in. thickness to take care of front main bearing bolt on Chevrolet 1924 and later models. Socket end fits center and rear main bearing bolts.

A tool designed especially for above work and no Chevrolet mechanic should be without one.

No. 4926—Each .....\$1.50  
Weight 1 lb. 5 oz.



Diameter handle  $\frac{5}{8}$  in., socket size  $\frac{7}{8}$  in.

Same as No. 4926, only for 1923 and earlier model Chevrolets.

No. 4928—Each .....\$1.50  
Weight 1 lb. 5 oz.



Socket sizes  $\frac{3}{4}$  and 1 in.

For clutch finger bolt nut on Chevrolet cars prior to 1924. Also can be used in place of thin open end wrench in many other places with greater safety.

No. 4950—Each .....\$0.90  
Weight 6 oz.

### BUICK CYLINDER HEAD WRENCHES



Diameter handle  $\frac{1}{2}$  in., socket size  $\frac{5}{8}$  in. Buick master six cylinder head cap screw wrench. For removing cylinder head cap screws without disturbing rocker arm assembly. See photo below.

No. 2020—Each .....\$1.35  
Weight 1 lb. 5 oz.



Diameter handle  $\frac{1}{2}$  in., socket size  $\frac{5}{8}$  in. Buick standard six cylinder head cap screw wrench. For removing cylinder head cap screws without disturbing rocker arm assembly. Both openings drop forged and ground to  $\frac{1}{8}$  in. thickness. A real labor saving tool. See photo below showing tool in use.

No. 2020X—Each .....\$1.35  
Weight 1 lb. 5 oz.



Showing 2020 or 2020X in use on Buick

### DODGE WRENCHES



Socket size  $\frac{11}{16}$  in.

Special speeder for Dodge cylinder head stud nuts. Length 23 in. over all. Has ample clearance for cowl when removing rear stud nuts on cylinder head.

No. 6322—Each .....\$1.25  
Weight 2 lbs.



Diameter handle  $\frac{5}{8}$  in., socket sizes  $\frac{3}{4}$  and  $\frac{7}{8}$  in.

Heavy, well designed tool for Dodge connecting rod bolt nuts, main bearing stud nuts, rear spring clip nuts, etc.

No. 2224—Each .....\$0.90  
Weight 1 lb. 8 oz.



$\frac{1}{2}$  x  $\frac{1}{2}$  in. hexagon socket,  $3\frac{3}{4}$  x  $3\frac{3}{8}$  in. handle

Especially adapted for the many small bolts and nuts on the Dodge.

No. 475—Each .....\$0.70  
Weight 6 oz.

### SPARK PLUG SOCKETS



Weight 9 oz.

No. 3329—Each .....\$0.50  
Fits all spark plugs with  $\frac{7}{8}$  and 1 in. hexagon.

No. 3731—Each .....\$0.50  
Fits Ford and all other plugs with  $\frac{11}{16}$  and  $1\frac{1}{8}$  in. hexagon.

# BLACKHAWK MANUFACTURING COMPANY

## Car Owner Sets

When  
you see a  
"Hex"  
think of  
Blackhawk

These sets are made up for the benefit of car owners who desire to make their own repairs. Each set has been carefully selected to meet the requirements of the particular cars designated.

### NO. 45 SET FOR FORD CARS

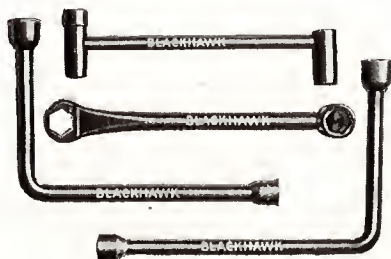


Five tools with twelve socket openings. An ideal set for the car owner. Will enable him to take care of practically any job on the Ford. Dealers should stock this set for resale, as every Ford owner needs one.

No. 45 Set—List.....\$4.20

Weight 6 lbs.

### NO. 30 SET FOR CHEVROLET CARS

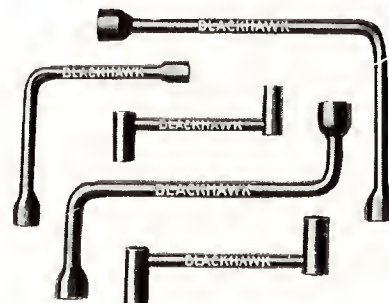


This small set will cover a wide range of repairs on the Chevrolet. Four tools with nine socket openings.

No. 30 Set—Each.....\$4.45

Weight 5 lbs. 7 oz.

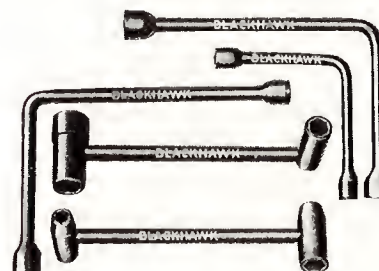
### NO. 650 SET FOR DODGE CARS



A small compact set of five tools with ten socket openings, carefully selected for the Dodge car owner.

No. 650 Set—List.....\$4.40

### NO. 50 SET FOR OTHER CARS



This set contains five tools with thirteen socket openings. Especially recommended for the following cars:

Buick	Flint	Oakland
Chandler	Gray	Oldsmobile
Chrysler	Hudson	Overland
Durant	Moon	Star
Essex	Nash	Studebaker

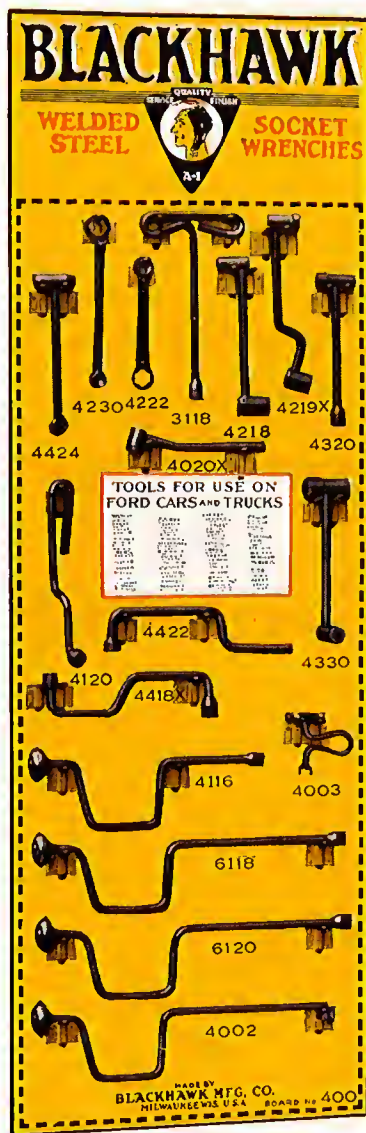
No. 50 Set—List.....\$4.80

Weight 7 lbs. 4 oz.

When  
you see a  
"Hex"  
think of  
Blackhawk

## No. 400 Dealers' Display Board Wrenches for Ford Cars and Trucks

### SPECIFICATIONS



### No. 400 Display contains

3	4418X	\$0.90
3	4120	.65
3	6118	.95
3	6120	.95
3	4002	.95
3	4003	.50
3	4218	.95
3	4320	.80
3	4230	.85
3	4222	.50
3	4422	1.25
3	4219X	1.40
3	4116	.85
3	3118	.70
2	4424	1.00
3	4330	1.20
3	4020X	.65

49 Tools

No. 400—Complete .....\$42.95

Weight board 42 lbs., wrenches 75 lbs.;  
code, Dewey

	Part Name	Size Across Flats on Nuts	Wrench Choice
BATTERY	Battery bracket bolt and nut.....	1/8	4218 1820
	Battery clamp bolt nut.....	1/8	4330 1220
BODY PARTS	Body bracket connecting bolt.....	1/8 sq.	4219X
	Body bracket connecting bolt nut.....	1/8	4330 2422
	Dash bracket-to-dash bolt nut.....	1/8	4116 4320
	Dash-to-body bracket bolt nut.....	1/8	4218 1820
BRAKES	Brake shoe support bolt.....	1/8	4330 2422
	Brake shoe support bolt nut.....	1/8	4218 4424
CARBURETOR	Carburetor flange bolt and nut.....	1/8	4418X
COMMUTATOR	Commutator case support bolt (without starter).....	1/8	4218 4424
	Commutator case support bolt (starter type).....	1/8	4320 4424
	Commutator contact point nut.....	1/8	104
ENGINE	Commutator lock nut.....	1/8	4218 4424
	Camshaft bearing set screw.....	1/8	4218 1820
	Camshaft lock nut.....	1/8	438
	Connecting rod bolt nut.....	1/8	4120 4020X
	Crank case bolt and nut.....	1/8	3118 6118
	Crank case arm bolt and nut.....	1/8	4218 144
	Crank case front bearing screw.....	1/8	4320 6120
	Crank case front bearing and spring clip nut.....	1/8	4424 4218
	Crank case lower cover screw.....	1/8	4116 4320
	Crank case oil drain plug.....	1/8	4330 4230
	Crank shaft main bearing bolt.....	1/8 sq.	4219X
	Crank shaft bearing nut.....	1/8	4218 2224
	Cylinder cover and crank case bolt and nut.....	1/8	3118 1216
	Cylinder front cover bolt and nut.....	1/8	144 4218
	Cylinder front cover cap screws.....	1/8	4218 4424
	Cylinder front cover cap screw (starter type).....	1/8	4320 4424
	Cylinder head cap screws.....	1/8	4230 6120
	Cylinder valve cover stud nut.....	1/8	6118 3118
	Cylinder water inlet and outlet cap screw.....	1/8	4320 4230
	Engine base bolts and nuts.....	1/8	3118 6118
	Flywheel cap screw.....	1/8	4422 4122
	Inlet and exhaust clamp stud nut.....	1/8	3118 6118
	Piston pin clamp screw.....	1/8	4219X
FAN	Valve grinder.....	1/8	4002 4003
	Fan adjusting screw.....	1/8	4218 3118
	Fan bracket bolt (old style).....	1/8	4424 4218
FENDERS	Fan shaft nut.....	1/8	4330 2422
	Fender eye bolt nuts.....	1/8	4330 1220
	Front fender apron to frame bolt nut.....	1/8	4320 1416
	Front fender iron bolt and nuts.....	1/8	3118 4218
	Rear fender iron bolt nut.....	1/8	4424 4218
FRONT AXLE	Adjusting Cone (right and left).....	Oval	450 5504
	Ball socket bolt and nut.....	1/8	4218 4424
	Radius rod ball cap stud nut.....	1/8	3118 6118
	Spindle arm nut.....	1/8	4330 2830
	Spindle bolt nut.....	1/8	4424 4218
	Spindle bolt with oiler.....	1/8	4330 2422
	Spindle connecting rod bolt nut.....	1/8	4330 2422
	Spindle connecting rod bolt with oiler.....	1/8	4330 2422
	Spindle nut (right and left).....	1 1/8	5504 450
MAGNETO	Magnet cap screw.....	1/8	4424 4218
MISCELLANEOUS	Coil box nuts.....	1/8	4320 1416
	Horn bolt nuts.....	1/8	4320 1416
	Spark plug—Champion X.....	1/8	4230
	Tire holder bracket bolt nut.....	1/8	4320 475
	Windshield hinge nuts.....	1/8	4424 1820
MUFFLER	Muffler head retainer bolt and nut.....	1/8	3118 6118
	Muffler rod nut.....	1/8	4320 4116
RADIATOR	Radiator stud nut.....	1/8	4424 4218
REAR AXLE	Axle housing bolt and nut.....	1/8	4116 4320
	Differential case stud nut.....	1/8	4218 6118
	Differential drive gear screw.....	1/8	4116 4320
	Drive shaft castle nut.....	1/8	4330 2830
	Drive shaft roller bearing cap screw.....	1/8	4320 1820
	Drive shaft roller bearing stud nut.....	1/8	4320 1820
	Drive shaft roller bearing set screw.....	1/8	4320 4230
	Rear axle shaft castle nut.....	1/8	5504 4330
	Rear radius rod bolt and nut.....	1/8	4218 4424
	Rear axle housing drain plug.....	1/8	4330 4230
SPRINGS	Front and rear spring hanger nuts.....	1/8	4330 2422
	Front spring clip nut.....	1/8	4330 2830
	Front spring perch nut.....	1/8	4330 2830
	Rear spring clip nut.....	1/8	4330 2830
	Rear spring perch nut.....	1	3432
STEERING GEAR	Steering connecting rod ball socket bolt.....	1/8	4218 3118
	Steering gear post castle nut.....	1/8	4218 4424
	Steering post bracket bolt and nut.....	1/8	4218 1820
	Steering tube flange screw nut.....	1/8	4116 3116
	Steering yoke clamp bolt and nut.....	1/8	4330 2422
TRANSMISSION	Brake and reverse support bolt nut.....	1/8	4424 4218
	Clutch lever screw and nut.....	1/8	3118 6118
	Clutch pedal support bolt.....	1/8	4218 1820
	Clutch release fork clamp screw.....	1/8	3118 6118
	Controller shaft bracket bolt and nut.....	1/8	4320 1416
	Transmission band adjusting nut.....	1/8	4222 4222X
	Transmission band adjusting screw nut.....	1/8	4230 4222
	Transmission cover bolt and nut.....	1/8	3118 6118
	Universal ball cap bolt and nut.....	1/8	4218 1820
WHEELS	Rim bolt nuts.....	1/8	5020 5220
	Rear hub lock nut.....	1/8	5504 4330
	Wheel hub cap (front and rear).....	1 1/8 oc.	5504
	Wheel hub flange bolt nut.....	1/8	4330 2422

# BLACKHAWK MANUFACTURING COMPANY

When  
you see a  
"Hex"  
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## Wrenches for Fords



Diameter handle  $1\frac{1}{8}$  in., Socket Size  $\frac{5}{8}$  in.  
Connecting rod wrench, including fourth. For all models.  
No. 4020X—Each .....\$0.65  
Weight 15 oz.



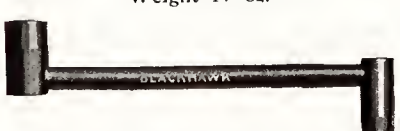
Diameter handle  $1\frac{1}{8}$  in., socket sizes  $\frac{1}{2}$  and  $\frac{3}{8}$  in.  
A handy socket wrench. Useful on any car. Especially adapted for cylinder head bolts, rear axle housing, crank case covers on Ford cars and trucks.  
No. 4320—Each .....\$0.80  
Weight 15 oz.



Diameter handle  $\frac{5}{8}$  in., socket sizes 1 and  $1\frac{1}{8}$  in.  
Used on Ford rear spring perch nut, rear spring clip Ford truck. This sturdy tool also useful on general repair work.  
No. 3432—Each .....\$1.45  
Weight 1 lb. 14 oz.



Diameter handle  $\frac{1}{2}$  in., Socket size  $\frac{3}{8}$  in.  
Double offset connecting rod wrench. For all rods, including fourth.  
No. 4120—Each .....\$0.65  
Weight 1 lb. 2 oz.



Diameter handle  $1\frac{1}{8}$  in., socket sizes  $\frac{1}{2}$  and  $\frac{3}{4}$  in.  
This tool very useful on Ford cars and trucks. Used on main bearing nuts, spindle bolt and nut, radius rod bolt and nut, differential case stud nuts, etc.  
No. 4218—Each .....\$0.95  
Weight 1 lb. 2 oz.



Length  $8\frac{1}{4}$  in., socket sizes  $1\frac{1}{8}$  and  $1\frac{3}{8}$  in. Transmission band and spark plug wrench. A popular priced wrench for the Ford car owner.  
No. 4222—Each .....\$0.50  
Weight 6 ozs.



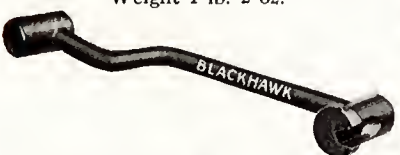
Diameter handle  $\frac{5}{8}$  in., socket size  $1\frac{1}{8}$  in.  
Heavy duty flywheel cap screw wrench. Special designed socket gives advantages of both socket and open end type wrenches. The socket has ample clearance and will not slip off cap screws.  
No. 4422—Each .....\$1.25  
Weight 1 lb. 2 oz.



Diameter handle  $\frac{1}{2}$  in., socket sizes  $\frac{1}{2}$  and  $\frac{3}{8}$  in.  
Specially designed for Ford generator head bolts and carburetor flange bolts.  
No. 4418X—Each .....\$0.90  
Weight 1 lb.



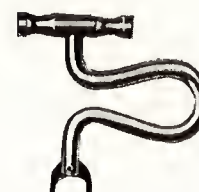
Length  $6\frac{1}{4}$  in., socket size  $1\frac{1}{8}$  in.  
Transmission band ratchet wrench heavier constructed than our No. 4222. Designed for mechanic's use. Socket end used on brake and reverse bands. Screw driver on other end for removing transmission cover door screws.  
No. 4222X—Each .....\$0.90  
Weight 5 oz.



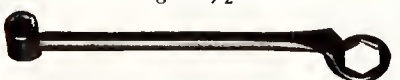
Diameter handle  $1\frac{1}{8}$  in., socket size  $1\frac{1}{8}$  in. sq. and  $1\frac{1}{8}$  in. hex.  
Specially designed for main bearing bolts and can be used on front and center bearing bolts with motor in chassis. Special open socket for connecting rod clamp screws.  
No. 4219X—Each .....\$1.40  
Weight  $1\frac{1}{2}$  lbs.



Diameter handle  $\frac{5}{8}$  in., socket sizes  $1\frac{1}{8}$ ,  $1\frac{1}{4}$  and  $1\frac{3}{8}$  in.  
Extra heavy triple socket wrench used on front spring perch nut, front radius rod nut, steering arm nut, spring clip nut, front wheel flange nut, rear spring clip nuts, rear hub lock nut and drive shaft castle nut. Also many other places on the Ford, and very useful on any car or truck.  
No. 4330—Each .....\$1.20  
Weight  $1\frac{3}{4}$  lbs.



Short valve grinder for Fords.  
No. 4003—Each .....\$0.50  
Weight 8 oz.



Diameter handle  $1\frac{1}{8}$  in., socket sizes  $\frac{5}{8}$  and  $1\frac{1}{8}$  in.  
Spark plug and cylinder head cap screw wrench for Ford cars and trucks. Box type opening is drop forged and heat treated. A real service tool.  
No. 4230—Each .....\$0.85  
Weight 15 oz.



Diameter handle  $1\frac{1}{8}$  in., socket sizes  $\frac{1}{2}$ ,  $1\frac{1}{8}$ ,  $\frac{5}{8}$  and  $\frac{3}{4}$  in.  
A general service tool with four of the most popular socket sizes combined into one tool. Especially recommended for Ford owners and mechanics.  
No. 4424—Each .....\$1.00  
Weight 1 lb. 8 oz.



Length over all 19 in.  
Long valve grinder for Ford. Will reach all valves, including one under dash. Extra attachments fit valves on all cars.  
No. 4002—Each .....\$0.95  
Weight 1 lb. 3 oz.

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## Wrenches For Fords

### LONG TEE



Diameter handle  $\frac{1}{2}$  in., socket size  $\frac{9}{16}$  in., length over all 12 in.

Fits Ford clutch lever screws, crank case bolts and nuts, engine base bolts, transmission cover bolts.

No. 3118—Each .....\$0.70  
Weight 1 lb. 6 oz.

### LONG TEE



Diameter handle  $\frac{1}{2}$  in., socket size  $\frac{3}{8}$  in., length over all 12 in.

Fits cylinder head bolts, brake shoe support, drive shaft roller bearings, front and rear spring tie controller shaft bracket nuts, cylinder inlet and outlet on Ford cars.

No. 3120—Each .....\$0.70  
Weight 1 lb. 6 oz.

### UNIVERSAL JOINT TEE



Diameter handle  $\frac{1}{2}$  in., socket size  $\frac{3}{8}$  in., length over all 12 in.

Fits Ford connecting rod, cylinder head, water cylinder inlet connection.

No. 520—Each .....\$2.00  
Weight 1  $\frac{1}{2}$  lbs.

### DOUBLE END HAMMER HEAD WRENCH



Diameter handle  $\frac{1}{2}$  in., socket sizes  $\frac{1}{2}$  and  $\frac{9}{16}$  in.

A useful tool on general repairs of Ford cars and trucks.

No. 1618—Each .....\$0.90  
Weight 11 oz.

### SHORT SPEEDER



Diameter handle  $\frac{1}{2}$  in., socket size  $\frac{1}{2}$  in., length over all 14 in.

This short speeder used on lower crank case cover screws, differential drive gear screws and many places where long speeder could not be used to advantage.

No. 4116—Each .....\$0.85  
Weight 1 lb. 4 oz.

### STANDARD SPEEDER



Diameter handle  $\frac{1}{2}$  in., socket size  $\frac{9}{16}$  in., length over all 19  $\frac{3}{8}$  in.

Especially designed for use on engine base bolts of Ford car and on many of some parts as 3118 use this wrench where speed is required.

No. 6118—Each .....\$0.95  
Weight 1  $\frac{1}{2}$  lbs.

### STANDARD SPEEDER



Diameter handle  $\frac{1}{2}$  in., socket size  $\frac{3}{8}$  in., length over all 19  $\frac{3}{8}$  in.

For use on cylinder head bolts on Ford cars.

No. 6120—Each .....\$0.95  
Weight 1 lb. 9 oz.

### FORD TIRE CARRIER WRENCH

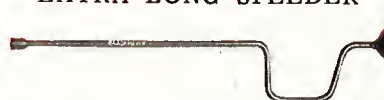


Diameter handle  $\frac{5}{8}$  in., socket sizes  $\frac{7}{8}$  and  $\frac{3}{4}$  in.

Used on Ford 1926 tire carrier tube bolt nut, steering knuckle arm, rear spring perch nuts, rear radius rod bolt nut and numerous other places on the Ford.

No. 2224—Each .....\$0.90  
Weight 1  $\frac{1}{2}$  lbs.

### EXTRA LONG SPEEDER



Diameter handle  $\frac{1}{2}$  in., socket size  $\frac{1}{2}$  in., length over all 28 in.

Designed especially for the 1926 Ford rear fender bolts. Also useful on many other parts of Ford.

No. 6316—Each .....\$1.25  
Weight 2 lbs.

### EXTRA LONG SPEEDER

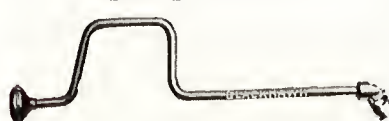


Diameter handle  $\frac{1}{2}$  in., socket size  $\frac{9}{16}$  in., length over all 28 in.

Used on Ford fender bolts, radiator stud nuts, crank case and cylinder cover cap screws.

No. 6318—Each .....\$1.25  
Weight 2 lbs.

### CONNECTING ROD UNIVERSAL SPEEDER



Diameter handle  $\frac{1}{2}$  in., socket size  $\frac{3}{8}$  in., length over all 20  $\frac{3}{4}$  in.

The most efficient wrench ever designed for this job. To use wrench properly, pull the fourth piston to the top of cylinder, the brace comes below the radius rods, the universal joint makes operation easy.

No. 620—Each .....\$2.50  
Weight 1 lb. 14 oz.

### ONE MAN SPEEDERS



Diameter handle  $\frac{1}{2}$  in., socket size  $\frac{9}{16}$  in.

Will do the work of two in one-quarter the time. Designed for use on Ford engine base bolts and nuts.

No. 6218—Each .....\$2.75  
Weight 2 lbs. 10 oz.

# BLACKHAWK MANUFACTURING COMPANY

## Wrenches For Fords

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### FORD MAIN BEARING WRENCHES

#### Heavy Duty



Length over all 15 in.,  $\frac{5}{8}$  in. diameter handle, socket size  $\frac{3}{4}$  in., 12 pt. double hex.

This wrench specially designed for taking up rear main bearing bolt nut without removing motor from car.

No. 4124—Each .....\$0.90

Weight 1 lb. 6 oz.



Length over all 14 in.,  $\frac{5}{8}$  in. diameter handle, socket size  $\frac{3}{4}$  in.

A heavy duty wrench designed for main bearing bolt nuts when the motor is removed from car. Also adaptable for spindle body bolt and radius rod bolt nuts.

No. 4024—Each .....\$0.90

Weight 1 lb. 2 oz.



Length over all 14 in.,  $\frac{3}{8}$  in. diameter handle, socket size  $\frac{1}{8}$  in. sq.

This wrench is designed to take both front and center main bearing bolts.

No. 4018—Each .....\$1.00

Weight 2 lbs. 2 oz.



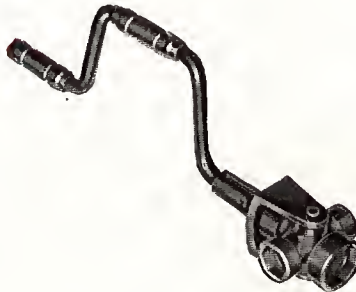
Length over all 16 in.,  $\frac{5}{8}$  in. diameter handle, socket size  $\frac{1}{8}$  in. sq.

This special wrench may be used on center main bearing with motor in car, on the front main bearing when motor is out.

No. 3018—Each .....\$1.50

Weight 2 lbs. 14 oz.

### WHEEL ASSEMBLY WRENCH FOR FORDS NO. 5504



A real Ford wheel assembly wrench. The only wrench of its kind and patented. A time and trouble saver for all Ford mechanics and garage men. Combines speed, handiness and extra powerful leverage.

Handles, Ford hub cap  $1\frac{3}{8}$  in. octagon, front spindle lock nut  $1\frac{1}{8}$  in. hexagon, bearing cone  $1\frac{1}{8}$  in. oval, and rear axle nut  $1\frac{3}{8}$  in. hexagon.

Also Chevrolet wheel assembly, except hub cap.

See photos below showing above tool in use.

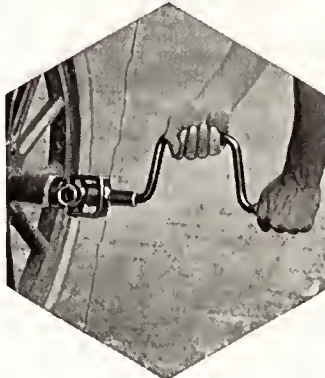
Diameter handle  $\frac{5}{8}$  in., weight  $6\frac{1}{2}$  lbs.

No. 5504—Each .....\$4.95

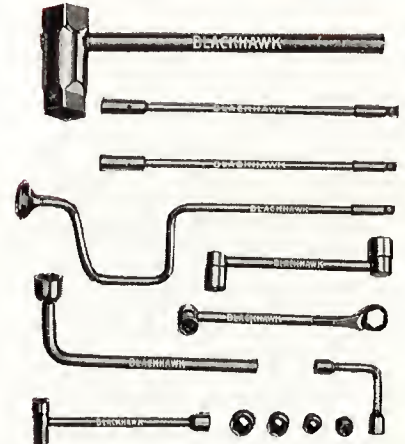
#### Leverage!



#### Speed!



### FORDSON TRACTOR SET NO. 1000



These wrenches have been designed for utility, strength and adaption to the various nuts and bolts on this tractor. The set contains solid socket wrenches of all sizes required. Special speeder with  $\frac{1}{2}$  in. square end, fits the different sockets, also the two Q. D. extensions making up speeders of 27 and 40 inches long. Tractor owners and mechanics will find this set very serviceable, as it is compact and therefore portable.

No. 1000 Set—Each .....\$13.00

Weight  $15\frac{1}{4}$  lbs.

Packed in heavy fibre box.

### SPECIAL TRACTOR SPEED WRENCH



$\frac{1}{2}$  in. diameter handle with steel knob. Has standard  $\frac{1}{2}$  in. square Q. D. end and can be used with any of our sockets.

Length over all 21 in.

A new and novel extension speeder used with special extensions No. 1006, it will make up a long and serviceable speeder of 27 and 40 inches long. Long guide in sleeve makes speeder as rigid as if solid.

No. 1005—Each .....\$1.25

Weight 1 lb. 9 oz.

### EXTENSION FOR TRACTOR SPEED WRENCH



$\frac{1}{2}$  in. diameter shank, length over all 16 in.

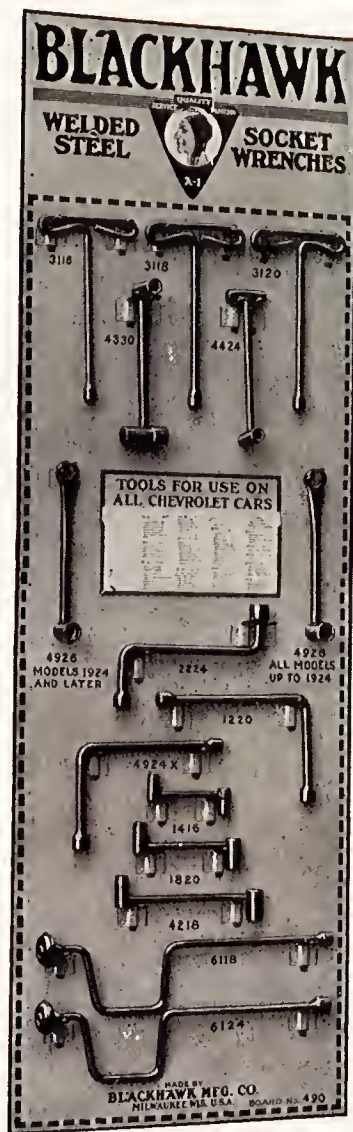
No. 1006—Each .....\$1.00

Weight 1 lb.

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## No. 490 Dealer's Display Board Wrenches for Chevrolet Cars

### CHEVROLET WRENCH SPECIFICATIONS



No. 490 Contains:

3 Wrenches Each Style

No. 1220....\$0.90	No. 4330....\$1.20
No. 1416.... .85	No. 4424.... 1.00
No. 1820.... .95	No. 4924X... 1.10
No. 2224.... .90	No. 4926.... 1.50
No. 3116.... .70	No. 4928.... 1.50
No. 3118.... .70	No. 6118.... .95
No. 3120.... .70	No. 6124.... .95
No. 4218.... .95	

List complete .....\$44.55

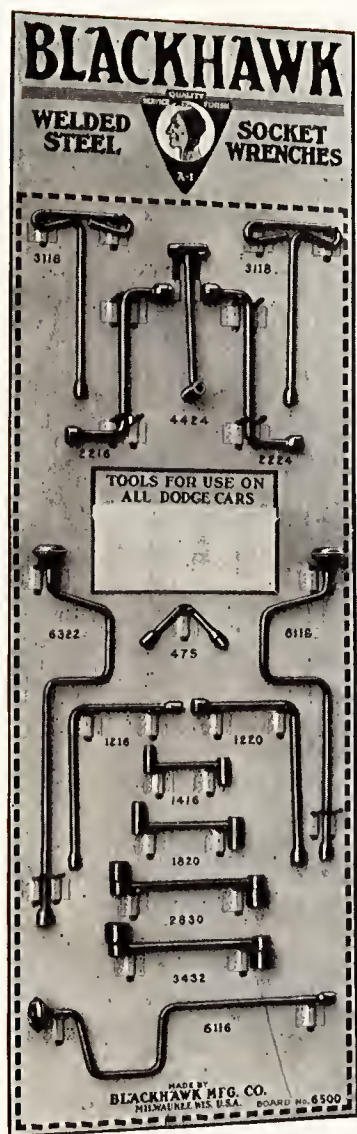
Weight of board 42 lbs., wrenches 79 lbs.,  
code, Envoy

	Part Name	Size Across Flats on Nuts	Wrench Choice
BATTERY	Battery box bracket to frame bolts.....	1/2	1416 575
BODY PARTS	Body to frame bolt nuts.....	3/8 sq.	T-5 and 020
BRAKES	Brake shaft lever bolts.....	1/2	1416 575
	Hand brake lever bolt.....	1/2	1820 575
CARBURETOR	Carburetor to manifold screw.....	1/2	1416 3116
CLUTCH	Clutch cover to flywheel screw.....	9/16	4924X 3118
	Clutch collar ball thrust cap screw.....	1/2	4424 1214
	Clutch collar trunnion screw.....	3/4	4950 4924X
	Clutch pedal adjusting bolt.....	1/2	4424 1218
	Clutch pedal adjusting nut.....	3/4	4424 1224
	Clutch yoke bolts.....	9/16	4924X 3118
FAN	Fan to stud screw.....	1/2	1416 1214
FENDERS	Fender bracket bolts.....	9/16	4924X 3118
FRONT AXLE	Drag link plug.....		T-5 and T-1
	Steering arm ball nut.....	7/8	4330 2224
	Steering knuckle king bolt nut.....	7/8	4330 2224
	Steering knuckle.....	1 1/8	3432
	Steering rod pitman arm.....	1 1/8	4330 2830
	Steering tie rod yoke bolt.....	3/4	4924X 2422
	Steering tie rod yoke bolt nut.....	7/8	2830 2224
	Steering tie rod yoke clamp bolt.....	1/2	4924X 575
GENERATOR	Generator to motor screws.....	1/2	1416 4424
HEAD LAMPS	Head lamp stud nut.....	3/4 sq.	T-5 and 024
MOTOR	Connecting rod (wrist pin end).....	9/16	4924X 6118
	Connect rod cap screw.....	9/16	4924X 1216
	Cylinder head bolts.....	3/4	4924X 6124
	Flywheel to crankshaft screws.....	9/16	4424 6118
	Intake and exhaust manifold stud nuts.....	1 1/8	3118 6118
	Main bearing bolts.....	1 1/8	4926 4928
	Motor to motor arm bolts.....	3/8	1220 3120
	Motor arm to frame bolts.....	3/8	3120 1220
	Motor drain plug.....	1/2 sq.	T-5 and 016
	Oil pan bolts.....	1/2	3116 1216
	Oil pump to motor screws.....	1/2	1416 3114
	Rocker arm bracket screw.....	1/2	3116 575
	Water outlet screw.....	7/8	1220 3120
	Water pump screw.....	1/2	3116 575
MUFFLER	Muffler to bracket bolt.....	1/2 sq.	T-5 and 016
RADIATOR	Radiator stud nut.....	9/16 sq.	310 and 018
REAR AXLE	Differential case screw.....	3/8	4924X 2216
	Drive shaft housing screws.....	3/4	4924X 2224
	Drive shaft nut.....	1	3432
	Rear axle drain plug.....	1/2 sq.	T-5 and 016
	Rear axle housing bolts.....	1/2	575 4424
	Rear axle nut.....	1 1/8	3432 1003
RUNNING BOARD	Running board to support nut.....	7/8 sq.	T-5 and 014
SPRINGS	Spring bolt and nut (front and rear).....	7/8	2830 4330
	Spring clip nut (front).....	3/4	2224 4924X
	Spring U bolt nut (front and rear).....	1 1/8	4330 2830
STARTER	Starter to bracket screws.....	9/16	3118 6118
	Starting switch bracket bolts.....	3/4	1224 4924X
	Bendix drive screw.....	1/2	475 4424
STEERING GEAR	Steering arm nut.....	1 1/8	3432
	Steering column support flange bolt.....	9/16	4218 1216
	Steering gear clamp bolt.....	3/8	1220 3120
TRANSMISSION	Spline shaft nut.....	1 1/8	4330 2830
	Transmission bearing screws.....	1/2	4424 1216
	Transmission cover screws.....	1/2	3116 1216
	Transmission drain plug.....	9/16 sq.	4219X 4018
	Transmission filler plug.....	9/16 sq.	4219X 4018
	Transmission to motor arm bolt.....	3/8	1820 1220
	Transmission to motor arm bolt nut.....	3/4	4924X 1224
	Universal joint housing.....	1/2	4424 1216
WHEELS	Demountable rim bolt nuts.....	3/4	5024 5224

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## No. 6500 Dealer's Display Board Wrenches for Dodge Cars

### DODGE WRENCH SPECIFICATIONS



No. 6500 Contains:

3 Wrenches Each Style

No. 475.....\$0.70	No. 3116.....\$0.70
No. 1216......90	No. 3118......70
No. 1220......90	No. 3432..... 1.45
No. 1416......85	No. 6116......95
No. 1820......95	No. 6118......95
No. 2216......90	No. 6322..... 1.25
No. 2224......90	No. 4424..... 1.00
No. 2830..... 1.45	

List complete .....\$43.65

Weight of board 42 lbs., wrenches 80 lbs.,  
code, Moco

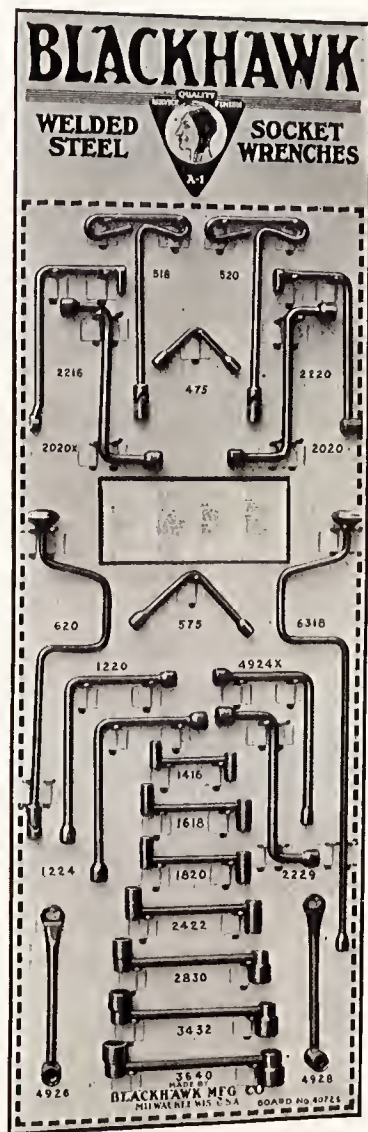
	Part Name	Size Across Flats on Nuts	Wrench Choice
BRAKES	Brake band to support bracket nut.....	1/2	516 616
CARBURETOR	Carburetor to manifold cap screws.....	1/2	3116 575
CLUTCH	Clutch pedal clamp bolt.....	1/2	475 1416
FAN	Fan adjusting screw.....	5/8	1220 1820
FENDERS	Front fender to frame bolt and nut.....	3/8	3118 6118
	Front fender bracket to frame bolt and nut.....	1/2	4424 475
	Rear fender to body nuts.....	1/2	516 475
FRONT AXLE	Drag link plug.....		T-4 and T-1
	Steering knuckle arm ball nut.....	3/4	2224 2422
	Steering knuckle arm nut.....	1	3432
	Steering knuckle king bolt and nut.....	1 1/8	4330 2830
	Steering knuckle nut.....	1 1/8	3432 1003
	Steering tie rod yoke clamp bolt.....	1 1/8	1820 575
MOTOR	Breather Screws.....	1/2	475 3116
	Connecting rod bolt nut.....	3/4	2224 4424
	Cylinder head stud nut.....	1 1/8	6322 1220
	Cylinder water inlet stud nut.....	1 1/8	3118 1820
	Cam shaft gear cap screws.....	1/2	6116 4424
	Engine shield bolt and nut.....	3/8	475 1416
	Engine support bolt (front).....	3/8	3118 1216
	Engine support bolt and nut (rear).....	3/8	2830 2224
	Exhaust manifold.....	3/8	6118 3118
	Flywheel to crankshaft bolt and nut.....	3/4	2422 2224
	Main bearing stud nut.....	1 1/8	4330 2830
	Oil pan screws.....	1/2	3116 6116
	Oil pan strainer and pipe screw.....	1/2	475 2216
	Oil pump screws.....	1/2	475 2216
	Push rod guide crab stud nut.....	3/8	2216 4424
	Timing gear cover screws.....	1/2	2216 3116
	Timer coupling bolts.....	3/8	475 1416
	Water pump gear cover screws.....	1/2	3116 2216
	Water pump gear housing screws.....	1/2	1216 575
	Water pump to motor screws.....	1 1/8	2216 575
MUFFLER	Muffler bracket bolts and nuts.....	1/2 sq.	T-4 and 016
RADIATOR	Radiator stud nut.....	3/4	310, T-6 & 24
REAR AXLE	Axle drive shaft nut.....	1 1/4	3640
	Differential carrier cap stud nut.....	1 1/8	4330 2224
	Differential carrier clamp bolt.....	1 1/8	4330 2830
	Differential carrier clamp bolt nut.....	1	3432
	Differential carrier housing bolt.....	5/8	1820 1220
	Differential case screws.....	3/8	1820 6118
	Differential case to ring gear screw.....	3/8	1820 6118
	Propeller shaft bearing retainer screw.....	3/8	1216 1820
	Propeller shaft drive pinion nut.....	1 1/4	3640
	Rear axle drain plug.....	1 1/8 sq.	T-5 and 014
	Rear axle housing cover screws.....	1 1/8	475 2214
RUNNING BOARD	Running board to support nut.....	1 1/8 sq.	4219X
SPRINGS	Front spring bolt nuts.....	1 1/8	4330 2830
	Front spring clamp bolt and nut.....	3/8	1820 2220
	Front spring clip nuts.....	3/4	2224 4424
	Rear spring bolt nut (front).....	1	3432
	Rear spring bolt nut (rear).....	1 1/8	4330 2830
	Rear spring clamp bolt and nut.....	3/8	1820 2220
	Rear spring clip nut.....	3/8	4330 2224
STARTER-GENERATOR	Starter generator adjusting bracket screws.....	1/2	3116 1216
	Starter generator clamp strap to motor screw.....	1/2	3116 1216
	Starter generator chain inspection cover screw.....	1/2	3116 1216
STEERING GEAR	Steering gear case.....	1/2	1416 475
	Steering gear case clamp bolt.....	3/8	1820 4424
	Steering gear case bracket clamp bolt.....	1 1/8	1220 3122
	Steering gear shaft connection bolts.....	3/8	2216 575
	Steering lever arm clamp bolt.....	3/4	1224 4424
	Steering post bracket bolt.....	1/2	2216 575
TRANSMISSION	Transmission case to block bolts.....	1/2	575 516
	Transmission case cover screws.....	1/2	1416 3116
	Transmission case drain plug.....	1 1/2 sq.	T-5 and 016
	Transmission main shaft nut.....	1 1/4	3640
	Reverse idler pinion bracket screws.....	1/2	475 3116
	Universal joint housing bolts.....	1/2	1416 516
	Universal housing to transmission case.....	1/2	575 6116
WHEELS	Demountable disc wheel nuts.....	3/4	5024 5224
	Wheel hub nuts.....	3/4	2224 4424

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## No. 4072 Display Board Miscellaneous Wrenches

### A MUCH NEEDED SALES STIMULATOR

The 4072 Display Board contains an assortment of miscellaneous wrenches for general repairs, giving them proper display for the first time. It shows several new tools for which there is an urgent demand. One of these boards should be in the Sales Room of every Blackhawk Jobber and Dealer. Sales of miscellaneous Blackhawk Tools, as well as the new numbers, will be largely increased by this new display board. Board has Metal front richly lithographed in four colors, making a very attractive display.



No. 4072

List complete .....\$57.80

Weight of board 42 lbs., weight  
of wrenches 68 lbs.; code, Gull.

### No. 4072 Contains

Quantity	No.	Description	Price
2	475	$\frac{3}{16}$ " and $\frac{1}{2}$ " "L" type.....	\$0.70
2	518	$\frac{9}{16}$ " Universal tee.....	2.00
2	520	$\frac{5}{8}$ " Universal tee.....	2.00
2	575	$\frac{1}{2}$ " and $\frac{9}{16}$ " "L" type.....	.80
2	620	$\frac{5}{8}$ " Universal speeder.....	2.50
2	1220	$\frac{11}{16}$ " and $\frac{5}{8}$ " "L" type.....	.90
2	1224	$\frac{3}{4}$ " and $\frac{7}{8}$ " "L" type.....	.90
2	1416	$\frac{3}{16}$ " and $\frac{1}{2}$ " Double offset hammer head.....	.85
2	1618	$\frac{1}{2}$ " and $\frac{9}{16}$ " Double offset hammer head.....	.90
2	1820	$\frac{9}{16}$ " and $\frac{5}{8}$ " Double offset hammer head.....	.95
2	2020	Special Buick Master Six cylinder head.....	1.35
2	2020X	Special Buick Standard Six cylinder head.....	1.35
2	2216	$\frac{1}{2}$ " and $\frac{9}{16}$ " Double offset "Z" type.....	.90
2	2220	$\frac{5}{8}$ " and $\frac{11}{16}$ " Double offset "Z" type.....	.90
2	2224	$\frac{3}{4}$ " and $\frac{7}{8}$ " Double offset "Z" type.....	.90
2	2422	$\frac{11}{16}$ " and $\frac{3}{4}$ " Double offset hammer head.....	1.15
2	2830	$\frac{7}{8}$ " and $\frac{15}{16}$ " Double offset hammer head.....	1.45
2	3432	1" and $1\frac{1}{16}$ " Double offset hammer head.....	1.45
2	3640	$1\frac{1}{8}$ " and $1\frac{1}{4}$ " Double offset hammer head...	1.60
2	4924X	$\frac{9}{16}$ " and $\frac{3}{4}$ " "L" type.....	1.10
2	4926	$\frac{13}{16}$ " Special Chevrolet main bearing, 1924 and later models .....	1.50
2	4928	$\frac{7}{8}$ " Special Chevrolet main bearing, all models up to 1924.....	1.50
2	6318	$\frac{9}{16}$ " Extra long speeder.....	1.25

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## Rest-A-Foot-Throttle

The Foot Rest  
Follows The  
Throttle



A complete accelerator with an automatic foot-rest. Provides comfortable driving position at all speeds—eliminates leg strain.

Merely shifting weight of foot from gas button to foot-rest holds both button and rest steadily in position at any speed over any road. To accelerate, step on the gas, as usual. When foot is lifted both button and foot-rest return to idling position.

Eliminates jerky acceleration—weight of foot on rest holds throttle steady. Guaranteed. Individually packed in attractive box—ten to the carton.

### DEALER'S DISPLAY FREE—

With first order for eleven (11) Rest-A-Foot Throttles (ten for stock—one mounted on display stand). This sale-maker is made of heavy gauge steel attractively lithographed in three colors—yellow, red and black. An indestructible counter display that puts the Rest-A-Foot in front of the customer where he can operate it and sell himself.

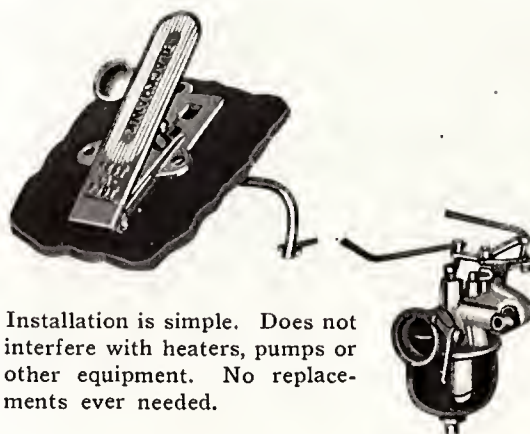
Price, each ..... \$3.00

Weight 3 lbs., cartons of ten 30 lbs.

### DEALER'S DISPLAY



Nationally advertised.



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## Blackhawk Water Pumps For Ford Cars and Trucks

"CHIEF"



"SCOUT"



The BLACKHAWK "Chief" is as rugged as the Ford engine itself. Has volute shape case with four-blade curved impeller, semi-enclosed. Three long bronze bearings in one casting, assuring perfect alignment and long life. Grease lubricators at all wearing points. Shaft of heavy cold rolled polished steel,  $\frac{3}{8}$  in. diameter.

This centrifugal pump, featuring turbine design, will pump more water than any other pump made for Fords. Keeps motor at temperature necessary for greatest power. Eliminates overheating in summer and freezing in winter. Flanged pulley prevents belt slipping off. Aggressively advertised in leading trade and consumer magazines.

Individually packed in neat, stout carton—six cartons to a case.

Weight net  $8\frac{3}{4}$  lbs., in carton  $10\frac{1}{4}$  lbs., case 67 lbs. Belt sizes: Fords previous to 1926 require 33 in. belt—1926 models use 36 in. belt.

Price, complete with belt and horn bracket. . . . . \$7.50

### FREE DISPLAY



This attractive two-color steel display holds a "Chief" or "Scout" from stock. Free with first order of six BLACKHAWK water pumps for Fords.

A first class pump that will improve the efficiency of the Ford motor. Has many features of the BLACKHAWK "Chief." Second only to the "Chief" in pumping power and performance. Equipped with curved three-blade bronze impeller.

Big bronze bearings with grease lubricator at belt end. Husky construction throughout. Flange pulley prevents the belt from running off.

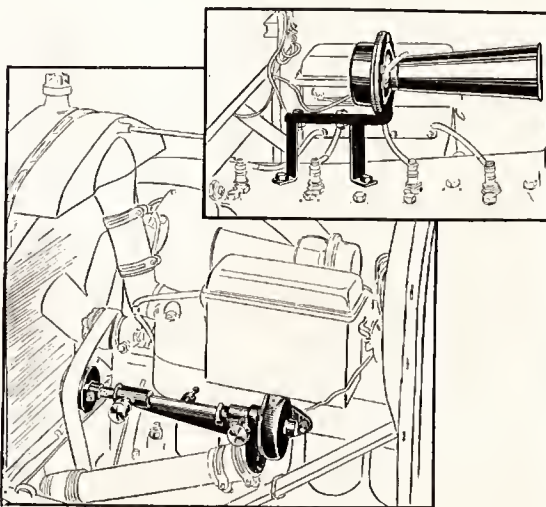
Individually packed in neat, stout carton—six cartons to a case.

Weight net  $7\frac{1}{2}$  lbs., in carton 9 lbs., case 59 lbs.

Belt sizes: Fords previous to 1926,  $32\frac{1}{2}$  in.—1926 model takes 36 in. belt.

Price, including belt and horn bracket. . . . . \$5.00

### INSTALLATION AND HORN MOUNTING



Cut shows both installation of pump and new horn mounting.

Note ideal location of horn in center of motor block where tone is not muffled. Does not interfere with mechanic working on spark plugs or coil box.

# BLACKHAWK MANUFACTURING COMPANY

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## Blackhawk Water Pumps

### FOR FORDSON TRACTOR



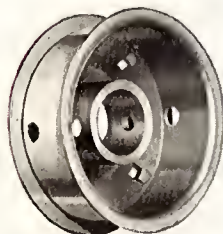
This sturdy, efficient BLACKHAWK water circulator will enable the powerful Fordson motor to stay on the job day and night without "cooling-off" periods. Turbine type with five-blade bronze impeller, semi-enclosed.

Equipped with idler pulley which takes belt slack— $\frac{3}{4}$  inch cold rolled steel shaft—flange pulley—double bronze bushed bearing—grease lubricators at bearings. Individually packed and shipped. Weight net 26 lbs., packed 31 lbs.

Price .....\$15.00

Regular Fordson belt used—no change necessary.

### FLANGED STEEL CRANKSHAFT PULLEY FOR FORDS



Flange prevents belt slipping off. Sturdily made of steel. Fits all models of Ford cars and is easily attached. Prevents belt from saturation of oil.

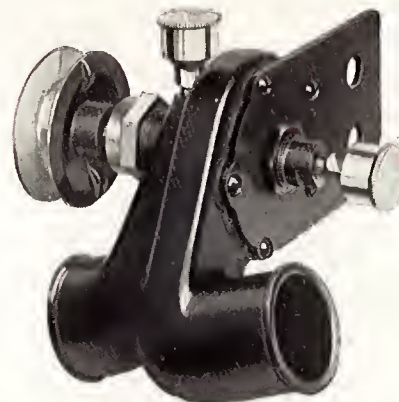
Each pulley packed in individual container. Ten in an attractive counter display box. Weight per carton of ten 8 lbs., case of one hundred 87 lbs.

Price, each .....\$0.75



Display carton of ten.

### FOR CHRYSLER "FOUR"



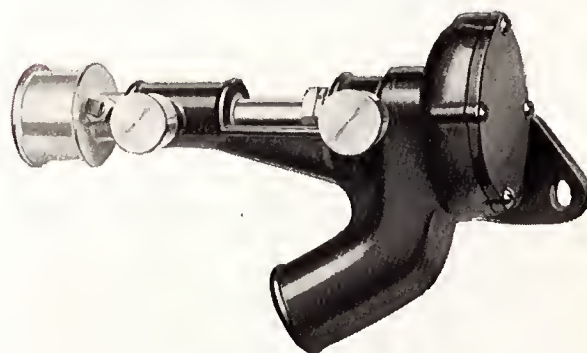
Will keep the Chrysler motor at highest efficiency under varying temperatures. No over heating in summer nor freezing in winter after installing this BLACKHAWK water pump.

This pump embodies the turbine-type design. Bronze bearings at all wearing points. Equipped with Alemite Zerk lubricators. Packed individually in neat, stout carton—six cartons to a case. Weight net 7 lbs., in carton 8 lbs., case 52 lbs.

Price, each .....\$7.50

Regular Chrysler belt used—no change necessary.

### FOR OVERLAND "FOUR"



A powerful water circulator that will keep the Overland motor at temperature necessary for best results. Eliminates over heating and resulting repairs. Assures longer life and more pep to motor at lower upkeep. Turbine type—four blade bronze impeller semi-enclosed in volute shape case— $\frac{5}{8}$  inch steel shaft—flange pulley. Individually packed in neat, stout carton—six cartons to a case. Weight each 7 lbs., in carton 8 lbs., case 52 lbs.

Price, including belt .....\$7.50

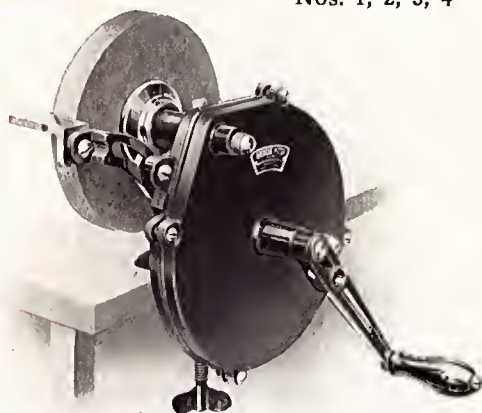
(Belt:  $37\frac{1}{2}$  inches long by  $\frac{7}{8}$  inch wide.)

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## American and Champion Hand Tool Grinders

### AMERICAN QUALITY TOOL GRINDERS

Nos. 1, 2, 3, 4



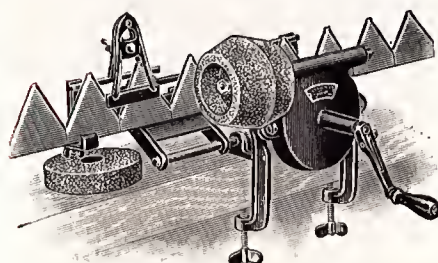
The American Quality Tool Grinder is a perfectly balanced smooth running grinder with oil tight gear case. Clamp of malleable iron and finished in a high grade baked black enamel. Made in four sizes. Equipped with corundum grinding wheels.

#### List Prices

No. 1—4x1 "	wheel.	\$ 5.90
No. 2—5x1 "	wheel.	8.10
No. 3—6x1 "	wheel.	10.35
No. 4—7x1 1/4 "	wheel.	15.25

### AMERICAN SICKLE AND TOOL GRINDER

No. 5

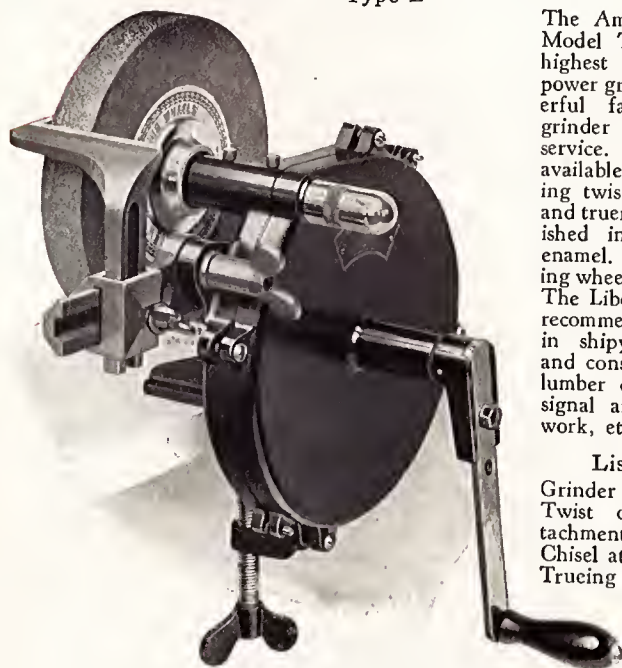


The American No. 5 Sickle and Tool Grinder is a high class grinder for farm use—smooth running, noiseless and dirt-proof. Ball bearing and worm shaft drive. Clamps of malleable iron. Finished in a high grade baked black enamel. Size of sickle wheel 4 1/2 x 3 1/2 inches, tool wheel 5 x 1 1/4 inches.

List price .....\$11.00

### AMERICAN LIBERTY MODEL

Type B



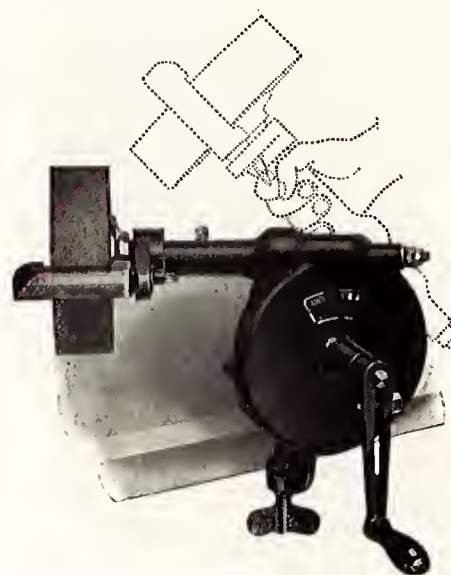
The American Liberty Model Type B is the highest grade hand power grinder. A powerful fast cutting grinder built for hard service. Attachments available for sharpening twist drills, chisels and truing wheel. Finished in baked black enamel. Size of grinding wheel 7 x 1 3/8 inches. The Liberty Grinder is recommended for use in shipyards, railroad and construction work, lumber camps, mining, signal and line repair work, etc.

#### List Prices

Grinder .....	\$19.00
Twist drill attachment .....	16.70
Chisel attach. . .	5.60
Truing attach. . .	3.35

### AMERICAN TILTING GRINDER

No. 6

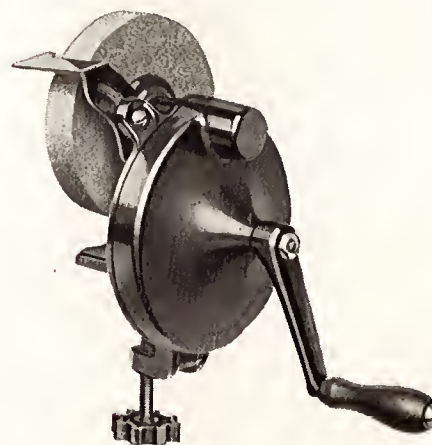


The American No. 6 Tilting Grinder is a high grade grinder, especially recommended for broad-edge tools. Has adjustable grinding wheel. Ball bearings and worm shaft drive at 20 degree angle to clear handle. Clamp of malleable iron. Finished in baked black enamel. Size of wheel 5 x 1 1/2 inches.

List price .....\$11.10

### CHAMPION TOOL GRINDER

Nos. 14, 15, 16



Champion popular priced grinders, in three sizes. Finished in baked green enamel.

#### List Prices

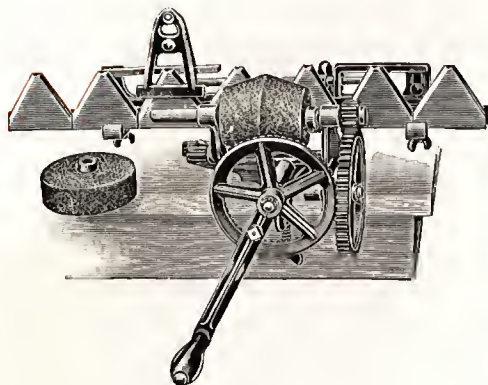
No. 14—4x1 in. wheel.....	\$3.45
No. 15—5x1 in. wheel.....	4.55
No. 16—6x1 in. wheel.....	5.35

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## Champion and Power Grinders

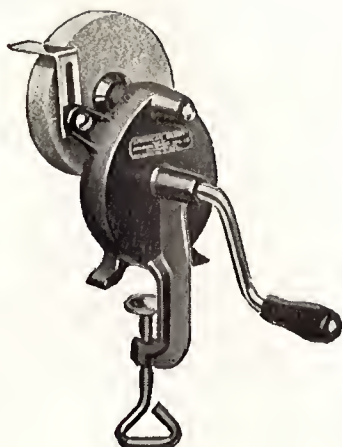
CHAMPION NO. 25



A good serviceable farm grinder will take care of all ordinary grinding jobs about the farm. Fitted with two grinding wheels—one  $3\frac{1}{2} \times 3\frac{1}{2}$  inch cone shaped wheel for sickles and one  $4 \times 1\frac{1}{4}$  inch flat faced wheel for tools. Sickle holder will take any make of sickle. Finished black enamel.

List price .....\$8.80

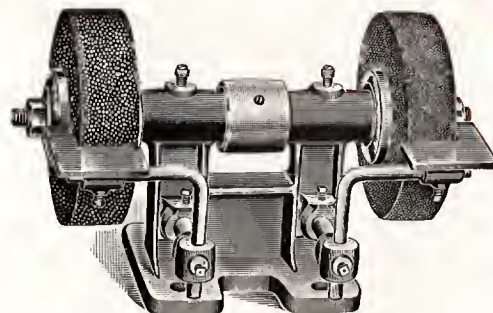
BUDDY GRINDER



The Buddy is the lowest priced grinder in the line. It makes a good household sharpener for knives and small tools. Finish green enamel with red flanges. Fitted with  $4 \times \frac{3}{4}$  inch wheel.

List price .....\$2.75

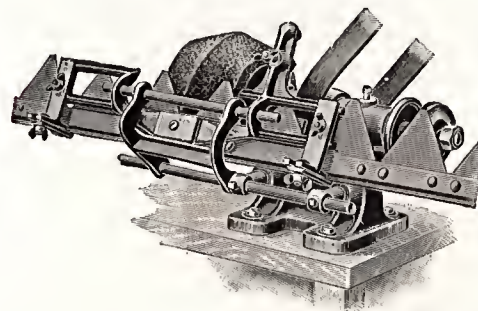
POWER GRINDER NO. 50



The American No. 50 Power Grinder is a simple, inexpensive, yet efficient grinder for shop use. Furnished complete with adjustable tool rests and two corundum grinding wheels, each  $6 \times 1\frac{1}{4}$  inches, one coarse and one fine grit.

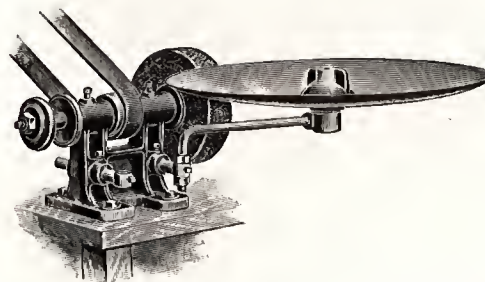
List price .....\$13.35

FARM EQUIPMENT NO. 60



The American No. 60 Power Head for farm use is equipped with two corundum grinding wheels, each  $6 \times 1\frac{1}{4}$  inches, one coarse and one fine grit; one large bevel sickle cone, one automatic sickle holder, and one disc grinding attachment as shown below.

List price .....\$19.00



Disc Grinding Attachment.

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## Memoranda

92.150



